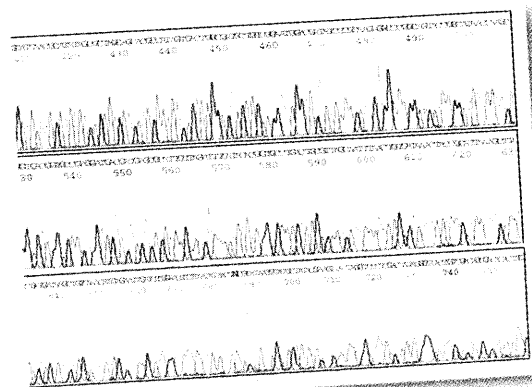


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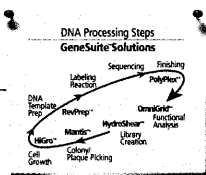
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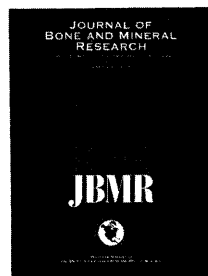
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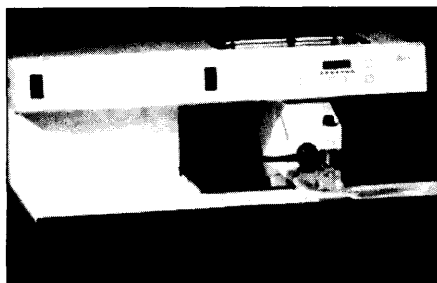
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Postdoctoral positions available immediately for studying mechanisms of radiation-induced alterations in signal transduction, transcription, and growth factor receptor expression with the intent to apply gene therapeutic approaches to modulate radiosensitivity. Molecular biology, animal experience, and/or using adenovirus preferable. Salary negotiable. Contact: **Dr. Kris Valerie, Radiation Oncology, Virginia Commonwealth University, Richmond, VA 23298-0058.** E-mail: kvalerie@hsc.vcu.edu; web-site: <http://www.radonc.rdo.vcu.edu>.

Research position in technetium 99m radiopharmaceutical development. Immediate **POSTDOCTORAL** opening for an inorganic chelation Chemist to join a growing research team. This individual will participate in ongoing research projects involving novel applications of technetium 99m-labeled DNAs, PNAs, and other oligomers as potential radiopharmaceuticals and the development of novel chelators for radiolabeling proteins, peptides, and oligomers for infection and tumor imaging. Experience in technetium chemistry would be highly advantageous for this position. Candidates must be experienced, preferably with a track record in radiopharmaceutical development. The position is well funded through several U.S.A. federal one- to three-year grants and several open-ended grants from industry. Salaries will be commensurate with experience and are competitive with NIH guidelines. Please contact:

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Division of Nuclear Medicine
Department of Radiology
University of Massachusetts Medical School
Worcester, MA 01655 U.S.A.
Telephone: 508-856-4256
FAX: 508-856-4572
E-mail: donald.hnatowich@umassmed.edu

POSTDOCTORAL POSITION APOPTOSIS CONTROL BY SIGNAL TRANSDUCTION

A Postdoctoral position is available now at Columbia University in New York to study cell death regulation by signaling pathways. A multidisciplinary approach will primarily examine transcriptional events involved in apoptosis regulation. Applicants should be recent graduates with experience in cell biology, developmental biology, molecular biology, or biochemistry and submit curriculum vitae and brief summary of their research interests. Competitive salaries include a comprehensive benefit package. Contact: **Thomas Franke, Columbia University, 630 West 168th Street PH7-W318, New York, NY 10032.** FAX: 212-305-8780; e-mail: tff5@columbia.edu. *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

An NIH-funded **POSTDOCTORAL ASSOCIATE** position is available immediately at the Center for Immunology ([website: www.borg.labmed.umn.edu/imm.html](http://www.borg.labmed.umn.edu/imm.html)) to examine human leukocyte adhesion molecule structure/function (*Cell* 92:809, 1998). Full-time (100%); annually renewable. Must have completed a Ph.D. or equivalent foreign degree by start date. Candidates with extensive training in molecular biology are encouraged to apply. Experience in immunology preferred. Send cover letter; curriculum vitae; and names, mail, and e-mail addresses of three references to: **Dr. Bruce Walcheck, University of Minnesota, 295J, AS/VM Building, 1988 Fitch Avenue, St. Paul, MN 55108.** *The University of Minnesota is an Equal Opportunity Employment Employer.*

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS in molecular basis of microbial pathogenesis funded by an NIH training grant are available at the University of Colorado Health Sciences Center (UCHSC) in Denver, Colorado. *Candidates MUST be United States citizens or permanent residents.* Training is available in molecular biology of bacterial infections (with **Ferric Fang, Randall Holmes, Helene Marquis, and Michael Vasil**), viral infections (with **David Barton, Robert Garcea, Donald Gilden, Kathryn Holmes, Daniel Kuritzkes, Jerome Schaack, Aleem Siddiqui, Eric Simoes, or Kenneth Tyler**), and cytokine responses to infections (with **Charles Dinarello**). Additional information on the faculty and their research interests is available at [website: www.uchsc.edu/sm/microbio](http://www.uchsc.edu/sm/microbio). Basic scientist candidates must have the Ph.D. or an equivalent degree with experience in microbiology, bacteriology, virology, immunology, molecular biology, genetics, biochemistry, or cell biology. Clinical scientist candidates must have the M.D., D.O., or D.V.M. degree and a demonstrated interest in and aptitude for laboratory research. Stipend is determined by NIH based on years of postdoctoral experience. Submit curriculum vitae, bibliography, and names of three references by mail to: **Dr. Randall Holmes, Department of Microbiology B-175, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262.** E-mail: randall.holmes@uchsc.edu. *UCHSC is committed to Equal Employment Opportunity and Affirmative Action.*

POSTDOCTORAL POSITION UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY

The University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School, has an NIH-funded position available for biophysical studies of peptides that model normal and mutant collagen triple-helix domains in host-defense proteins (C1q, mannose binding protein, lung surfactant protein A) and in different collagen types. Background in some aspect of biophysical chemistry and some experience with disulfide chemistry is desirable. Please send curriculum vitae, a letter describing your interests, and the names of three references (including e-mail addresses and telephone numbers) to: **Barbara Brodsky, Department of Biochemistry, Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854.** E-mail: brodsky@umdnj.edu. *University of Medicine and Dentistry of New Jersey is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.*

POSTDOCTORAL POSITION open immediately in the Lung Cancer Program, University of Pittsburgh Cancer Institute, to study role of estrogens in lung cancer. Current investigations include expression of RNA and protein for the estrogen receptor genes in the lung, biological effects of estrogens in lung tissues and cells, and gene activation in response to estrogens. A background in steroid hormone biochemistry is helpful but not required. Qualifications include a Ph.D. with a background in biochemistry, molecular biology, or pharmacology. Send curriculum vitae and contact information for at least two references to: **Dr. Jill M. Siegfried, Department of Pharmacology, Lung Cancer Program, University of Pittsburgh Cancer Institute, E1340 Biomedical Science Tower, Pittsburgh, PA 15261.**

Dimera LLC, a new biotechnology firm with NIH funding in Portland, Oregon, seeks **POSTDOCTORAL FELLOWS** to assist with digital live cell microscopy, calcium and PKC dynamic analysis, and Doppler-enhanced catheterization of primate coronary arteries. Our goal is new drug discovery and development for drugs to offer live-saving treatment of postmenopausal women. Dimera strives to provide a fun, challenging learning environment for motivated individuals. Salaries above NIH guidelines, enhanced by success bonuses, acknowledge outstanding contributions. FAX résumés to: 503-295-2757. Visit our [website: www.dimera.net](http://www.dimera.net).

Life science graduates interested in postdoctoral fellowships can choose among multiple opportunities in academic laboratories and elsewhere. Here, we outline the pros and cons of postdoctoral work in industry and government labs, as well as classical academe. **BY PETER GWYNNE**

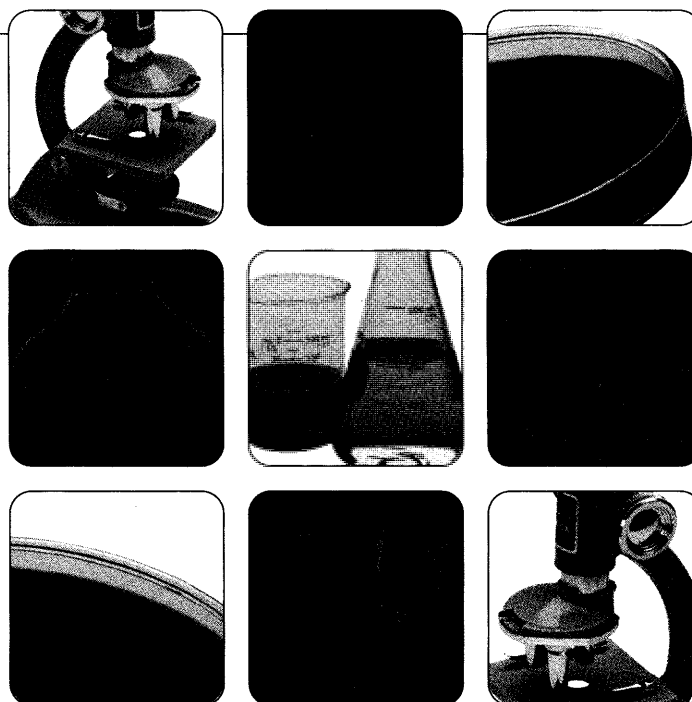
Forget any anecdotes you might have heard about life scientists who pursue one postdoctoral fellowship after another once they fail to find employment following their first unsatisfying post-Ph.D. experience. Postdoctoral opportunities in life science are now abundant and postdocs' job prospects have improved considerably in recent years.

Certainly some trainee scientists can get caught in "factory lab" situations with principal investigators who accept nothing less than spectacular results while providing little support. But by choosing the locations of their postdoctoral fellowships carefully, new Ph.D.s can almost ensure rewarding experiences and solid training in research methods.

Postdoctoral opportunities exist beyond the ivory tower. Government institutions such as the National Institutes of Health (NIH) have long hosted postdocs in their laboratories. More recently, industrial labs have started to offer postdoctoral training to newly graduated Ph.D.s. Those untraditional fellowships often lead directly to job offers; employers appreciate individuals who have already worked for them.

In choosing between traditional and untraditional postdoctoral training, life scientists should consider their future career paths. Generally, individuals who plan to stay in academic life as researchers or teachers will benefit more from academic postdoctoral training while fellowships in corporate laboratories will provide experience suitable for industrial careers. However, many life scientists still move into industry after postdoctoral training in academic and government laboratories, and industrially trained postdoctoral fellows have been known to return to academic positions.

How should life scientists decide where to do their



Focus on Careers: Postdoctoral Opportunities

Variety of Choices

postdoctoral work? Academics advise candidates to focus on individual laboratories and the principal investigators who run them rather than the academic institutions to which they belong. Three main factors help applications for postdoctoral positions to stand out from the crowd. Obtaining funding support for one's research indicates the worthiness of the work. So do published papers in well-regarded peer-reviewed journals and letters of reference from renowned scientists.

Here we interview representatives of the three sectors that hire postdoctoral students in the life sciences: academe, government, and industry. They provide a well-rounded picture of the postdoctoral opportunities now available and the job prospects for postdocs once they complete their fellowships.

BOSTON, Massachusetts: "The number of postdocs has expanded in academe," says Martin Myers, assistant investigator at the Joslin Diabetes Center and assistant professor at Harvard Medical School. "We've come to rely on them as the workers in research." As a result, Myers continues, "More laboratories are looking for postdocs than there are postdocs. Most applicants can write their own ticket."

The Joslin Center takes three types of postdoctoral student: individuals from abroad, Ph.D.s from the United States, and M.D.s who are

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The Oklahoma Medical Research Foundation (OMRF) is a leading biomedical research institute. This independent, non-profit organization has a \$30M annual budget and conducts basic studies in several disease related areas. These include cancer, heart disease, diabetes, Alzheimer's disease, Parkinson's disease, and autoimmune diseases. OMRF laboratories are well equipped, supported by excellent core facilities, and highly competitive with respect to NIH grants. It is located within the Oklahoma Health Center, Oklahoma City, in a safe community that enjoys good weather and affordable housing. Some opportunities for post doctoral training are listed below and additional details about OMRF research can be found on its website: www.omrf.ouhsc.edu.

Alzheimer's Studies

Protein Studies Program is seeking a molecular/cell biologist to work in basic research related to Alzheimer's disease. The successful candidate must have a Ph.D. in Biochemistry, Molecular Biology, or related fields. Additional experience in Alzheimer's research will be given special consideration. The level of appointment will depend on experience and may range from Associate Research Scientist to Research Assistant Member. Send CV to Jordan Tang, Ph.D. (jordan-tang@omrf.ouhsc.edu).

Cardiovascular Biology

Cardiovascular Biology is seeking post doctoral applicants to study vascular involvement in blood coagulation and inflammation including processes and genes that lead to atherosclerosis. This is an integrated, multidisciplinary program that utilizes structural biology, biophysical methods, cell biology, and genetically modified mouse models to investigate the regulation of the coagulation and inflammatory processes.

Post doctoral position available to study the role of the endothelium in regulating blood coagulation and inflammation. Ideal backgrounds would include experience with receptor trafficking, molecular biology and/or immunocytochemistry. The studies will involve both cell culture experiments and genetically modified mouse models. Contact Charles Esmon, Ph.D. (charles-esmon@omrf.ouhsc.edu).

Post doctoral position available to study the membrane - protein interactions of the protein C natural anticoagulant system and the relationship of the particular membrane - protein complexes to their reactivity with anti-phospholipid autoantibodies, a known risk factor for thrombosis. Studies include phospholipid structure, the role of membrane oxidation, specificity of autoantibodies, and the relationship of antibody specificity to thrombotic risk. Ph.D.s or M.D.s with experience in lipid/membrane biochemistry, protein chemistry, or blood coagulation are encouraged to apply. Contact Naomi Esmon, Ph.D. (naomi-esmon@omrf.ouhsc.edu).

Post doctoral position is available to investigate the structure and function of the proteins of blood coagulation, in particular the effects of protein cofactors upon their cognate enzymes, using x-ray crystallography. The candidate should have a background in biochemistry or crystallography who is interested in structural biology. The lab is fully equipped for expression, isolation, modification, and crystallization of these proteins, regular access to the in house x-ray facilities and are members of a synchrotron beamline consortium. In addition, the lab is equipped with two Silicon Graphics workstations running most of the current crystallographic software for data reduction, model building, refinement, and structural analysis. Contact Tim Mather, Ph.D. (tim-mather@omrf.ouhsc.edu) at 405-271-4924, fax: 405-271-3137.

Post doctoral position available to study tyrosylprotein sulfotransferases with an emphasis on enzymology and structure-function relationships using a combination of biochemical, molecular biological, and x-ray crystallographic techniques as well as gene targeted mouse models. Please contact Kevin Moore, M.D. (kevin-moore@omrf.ouhsc.edu), 405-271-7314, or fax: 405-271-2557.

G Protein Signaling in Neurons

Seeking individuals with an interest in investigating an evolutionarily conserved G protein signaling network that regulates neurotransmitter secretion in *C. elegans*. See Miller *et al.* (1999) Neuron 24, 323-333 (see accompanying preview in the journal issue) and Miller *et al.* (2000) Neuron, August, 2000 issue. A variety of genetic and biochemical approaches are being used to identify new components of the signaling network and to investigate interactions between the identified components. Applications are sought from persons with expertise in biochemistry and molecular biology or persons with an interest in applying *C. elegans* genetic approaches to study an intriguing signal transduction pathway. Send a CV and 3 references to Kenneth G. Miller, Ph.D. (kenneth-miller@omrf.ouhsc.edu).

Human Genetics

Program has collected over 200 pedigrees multiplex for systemic lupus erythematosus and has performed over 500,000 genotypes. Genome scan analyses to date established seven linkages. Seeking colleagues who will explore linkages and candidate genes in this continuing project in an effort to identify the responsible genes. Contact and send CV to John B. Harley, M.D., Ph.D. (john-harley@omrf.ouhsc.edu) or fax to 405-271-4110.

Molecular Immunology/Virology

Recruiting doctoral level colleagues to help explore the role of Epstein-Barr virus in systemic lupus erythematosus and other immune-mediated disorders. Multiple projects are underway and include epitope mapping, virus variant characterization, and DNA vaccines. Contact and send a CV to John B. Harley, M.D., Ph.D. (john-harley@omrf.ouhsc.edu) or Judi James, M.D., Ph.D. (judi-james@omrf.ouhsc.edu) or fax to 405-271-4110.

Immunobiology & Cancer Program

Several post doctoral positions are available for studies involving the development and function of the immune system. Applicants are encouraged to inquire about projects in one of the following five laboratories: Paul W. Kincade, Ph.D. (paul-kincade@omrf.ouhsc.edu) and Xiao-Hong Sun, Ph.D. (xiao-hong-sun@omrf.ouhsc.edu) are conducting collaborative studies involving transcriptional repressors and their influence over lineage fate decisions made by hematopoietic cells. Dr. Sun is exploiting genetic knock-in and other advance technology to investigate helix-loop-helix family proteins in additional projects. Carol F. Webb, Ph.D. (carol-webb@omrf.ouhsc.edu) is pursuing exciting findings that link Bruton's tyrosine kinase to immunoglobulin gene regulation. Intracellular signal transduction pathways of lymphocyte antigen receptors and immunoglobulin Fc receptors are studied in the lab of Mark Coggeshall, Ph.D. (mark-coggeshall@omrf.ouhsc.edu) to understand the mechanisms regulating activation of hematopoietic cells.

Inflammatory Biology/Molecular Rheumatology Lab

Seeking post doctoral fellow to study the function of the gene that causes familial Mediterranean fever. This gene, designated *MEFV*, an endogenous regulator of neutrophil and monocyte function, is unique in that it causes frank inflammatory arthritis upon mutation. *MEFV* is an interferon-gamma immediate early gene, regulates interferon-alpha-mediated inhibition of leukocyte cell death, and provides a mechanistic link between host defense and rheumatologic disease. Cytokine, molecular biology, clinical or molecular rheumatology, or immunology experience with good communication and written skills desired. Send a CV with 2 references to Michael Centola, Ph.D. (centolam@omrf.ouhsc.edu).

Microarrays/Bioinformatics Lab

Seeking post doctoral fellow with strong molecular biology, cDNA, and subtractive library background to aid in implementation of a coordinated program in molecular phenotyping of human and rodent immune/inflammatory disease in a new million-dollar, technically staffed microarray facility. Good communication and written skills required. Send a CV with 2 references to Michael Centola, Ph.D. (centolam@omrf.ouhsc.edu).

Molecular Biochemistry

Post doctoral positions are available for individuals interested in molecular basis of inflammatory processes. Ongoing NIH-funded projects include studies of neutrophil proteinase-3, beta-2 integrins and cytokine interactions from structure-function perspectives through *in vivo* primate models of septic inflammation. Must have Ph.D. and/or M.D. and experience or strong interest in protein biochemistry and basic molecular biology techniques. Send a CV, list of 3 references, and short summary of future research plans to S. Kurosawa, M.D., Ph.D. (kurosawas@omrf.ouhsc.edu).

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The mission of the National Institute on Aging (NIA) is to improve the health of older Americans by supporting and conducting research on the processes of aging, on age-related diseases, and on the special health problems and needs of the aged. The Intramural Research Program (IRP) is comprised of nine scientific laboratories. Our research program includes the scientific disciplines of biochemistry, cell and molecular biology, genetics, behavioral sciences, epidemiology, statistics, neurosciences, and clinical research. The basic science laboratories include many unique training resources and core facilities such as transgenic & knockout mice, mouse and human cDNA arrays, confocal imaging, mass spectrometry, NMR and flow cytometry. The Laboratory of Clinical Investigation combines basic science/biomedical research and clinical investigation with patient care. The NIA IRP provides postdoctoral training to highly motivated physicians and Ph.D's at the Gerontology Research Center in Baltimore, Maryland, and on the National Institutes of Health campus in Bethesda, Maryland.

To apply for a postdoctoral position listed below, submit a curriculum vitae with publication list, three letters of reference, and a short statement of research goals to the correspondent. If you are unable to contact the correspondent using e-mail, mail application to:

**National Institute on Aging
Gerontology Research Center
Attn: (Name of Correspondent)
5600 Nathan Shock Drive
Baltimore, MD 21224-6825**

**POSTDOCTORAL POSITIONS ARE
AVAILABLE FOR THOSE WITH LESS
THAN 5 YEARS POSTDOCTORAL TRAINING
IN THE FOLLOWING AREAS:**

■ **Laboratory of Biological Chemistry**

Postdoctoral position to study **cellular responses to stress**. Areas of interest

include: (1) signaling pathways activated, (2) control of gene expression, (3) consequences for cell survival, and (4) roles in aging. Candidate should have an M.D. or Ph.D. degree in a relevant area and strong evidence of productivity.

Correspondent: Nikki Holbrook, Ph.D.
E-mail: nikki-holbrook@nih.gov

Postdoctoral position to study **molecular mechanisms of mRNA turnover in cancer, cell cycle regulation and aging**. Currently, the laboratory is investigating the subcellular localization, binding properties, associated proteins and target mRNA molecules of several RNA-binding proteins that either promote or decrease mRNA stability. Efforts are primarily focused on studying the turnover of mRNAs involved in the regulation of cell growth, including cell cycle regulatory genes, oncogenes and tumor suppressor genes. Signal transduction pathways involved in the modulation of mRNA turnover are also being investigated. Applicants must have experience with cellular and molecular biology techniques.

Correspondent: Myriam Gorospe, Ph.D.
E-mail: myriam-gorospe@nih.gov

A postdoctoral position to study **stress signaling pathways in mammalian cells** is available for Fall 2000. Current studies in the laboratory emphasize the role and regulation of MAP kinase cascades during stress response. Successful candidate will study the regulation of MAP kinase pathways and/or novel MAP kinase substrates.

Correspondent: Yusen Liu, Ph.D.
E-mail: LiuY@grc.nia.nih.gov

Postdoctoral positions to study the **molecular signal transduction events that are initiated in T lymphocytes upon encounters with cognate antigen**. Specific areas of interest include: (1) the role of the tumor suppressor gene PTEN in regulating T cell responses to antigen, (2) the role of endogenously produced reactive oxygen species in normal T cell function and the genesis of age-induced immunosenescence, and (3) the role of Tec family kinases in T lymphocyte function. Candidates must have expertise in some combination of immunology, molecular biology, biochemistry and protein chemistry.

Correspondent: Ronald Wange, Ph.D.
E-mail: WangeR@grc.nia.nih.gov

Postdoctoral position for the study of **gene expression in ovarian cancer using Serial Analysis of Gene Expression (SAGE)**,

cDNA arrays and other strategies. The laboratory is interested in the identification of genes deregulated during ovarian tumorigenesis that may be used as potential targets for diagnosis and/or therapy. Ongoing SAGE study of gene expression in ovarian cancer has identified a myriad of genes differentially expressed in ovarian cancer, including many novel ones. The successful candidate for the position will be involved in the functional characterization of these genes. Clinical applications will also be explored.

Correspondent: Pat J. Morin, Ph.D.
E-mail: MorinP@grc.nia.nih.gov

★ **Laboratory of Cardiovascular Science and Research Resources Branch**

A joint postdoctoral position is available for **development and application of proteomics technology** between the Laboratory of Cardiovascular Science and the Mass Spectrometry Unit of the Research Resources Branch. Research studies will be focused on characterization by mass spectrometry of proteins involved in the acute and chronic regulation of cardiac cell structure, function and response to stress.

Correspondent: Salvatore Sechi, Ph.D.
E-mail: SechiSa@grc.nia.nih.gov

◆ **Laboratory of Clinical Investigation**

Postdoctoral position to study the **pathophysiology of type 2 diabetes and the mechanisms of action of GLP-1**.

Correspondent: Josephine M. Egan, M.D.
E-mail: eganj@vax.grc.nia.nih.gov

Two postdoctoral positions. One is to **study the function of the transcription factor c-myc in epithelial or hematopoietic cell proliferation and differentiation**. Experience is desired in basic cell or cell and molecular biology. The other is to study the **effects of modulation of kinase function and chemotherapy sensitivity in breast cancer**. Experience is desired in pharmacology and cell biology.

Correspondent: Eric Westin, M.D.
E-mail: westine@grc.nia.nih.gov

A postdoctoral position to study **antigen presentation and T cell response in patients with cancer**. Candidates should have a strong background in cellular and molecular biology of antigen presenting cells and T cell responses.

Correspondent: Julita Nieve
E-mail: nievej@grc.nia.nih.gov

National Institute on Aging

★ Laboratory of Genetics

A postdoctoral position to study the **newly-identified human ATP-dependent Chromatin-remodeling complexes** (G&D 10:2117; Cell 95:625; Mol. Cell 2:851), and **helicase complexes involved in Werner's Syndrome**. Training will include rapid purification of protein complexes from mammalian cells, microsequencing and cloning of new subunits, analysis of the roles of these complexes in normal cellular processes and in human diseases.

Correspondent: A. Michaelis
E-mail: MichaelisA@grc.nia.nih.gov

Two positions to study **early mouse development by utilizing the NIA 15K mouse cDNA microarray** (see <http://lgsun.grc.nia.nih.gov/cDNA/cDNA.html>). One is to study the **global changes of gene expression patterns during ES cell differentiation and to identify genes that are critical for the maintenance of pluripotency and/or for early commitment to different cell lineages**. The other is to study the **germ line development by analyzing gene expression regulations in primordial germ cells and EG cells**. Extensive experience with molecular biology will be required and experience with mouse developmental biology will be preferred.

Correspondent: Dr. Minoru S. H. Ko, M.D., Ph.D.
E-mail: KoM@grc.nia.nih.gov

* Laboratory of Molecular Genetics

Postdoctoral position to study the **molecular functions of DNA helicases defective in premature aging syndromes**. The successful candidate will be a member of a research team that investigates the molecular biochemistry of proteins proposed to function in DNA repair or replication.

Correspondent: Robert Brosh, Ph.D.
E-mail: broshr@grc.nia.nih.gov

Postdoctoral position to study the **influence of DNA repair functions on gene targeting mediated by triple helix forming oligonucleotides**. Experience in molecular, cellular biology, and biochemistry preferred.

Contact: Michael Seidman, Ph.D.
E-mail: seidmanm@grc.nia.nih.gov

Postdoctoral positions to **conduct research on DNA repair and molecular changes with aging**. The laboratory is studying the

molecular biochemistry of premature aging disorders and the processing of oxidative DNA damage in nuclear and mitochondrial DNA.

Correspondent: Vihelm A. Bohr, M.D., Ph.D.
E-mail: BohrV@grc.nia.nih.gov

■ Laboratory of Neurosciences

Postdoctoral position to **study modification of behavior and neurotoxicity by caloric restriction and caloric restriction mimetics such as 2-deoxyglucose**. Applicants must possess relevant experience in primate neurobiology including behavioral assessment and molecular biology or histology. Applicants with experience in the use of the MPTP model will be given preference.

Correspondent: Mark A. Lane, Ph.D.
E-mail: MLANE@vms.grc.nia.nih.gov

Two postdoctoral positions. One position involves **assessing age-related cognitive deficits and the effects of novel pharmacological treatments to enhance memory function in aged rodent models, including mouse models of Alzheimer's disease**. Applicants with experience in behavioral neuroscience, neurophysiology, or neuropharmacology will be considered. A second position involves **investigation of metabolic and neural mechanisms related to the anti-aging effects of long-term calorie restriction in rodents and monkeys and the development of pharmacological interventions that mimic the effects of calorie restriction**. Applicants with experience in nutrition, physiology, primatology, molecular biology, neurophysiology, and neurobiology will be considered. Both positions will involve the use of neurosterology.

Correspondent: Donald Ingram, Ph.D.
E-mail: doni@vax.grc.nia.nih.gov



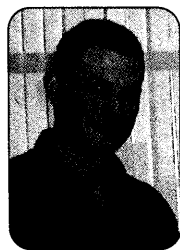
Tenured/Tenure Track Investigator

The Intramural Research Program of the National Institute on Aging (NIA), Baltimore, MD invites nominations and applications for an **independent investigator position within the Laboratory of Genetics**. **Starting salary commensurate with qualifications and experience. The investigator will be responsible for conducting and coordinating a research program in the genetic analysis of aging-related human conditions and diseases. In addition to directing independent research, the position offers participation in the analysis of genetic data with an interactive group studying selected aging-related phenotypes in the Baltimore Longitudinal Study of Aging; in other outbred populations; and in a major "founder population" (in conjunction with human geneticists from that population). Applicants must have a Doctoral Degree with a record of scientific accomplishment in modern quantitative statistical genetics. Additional preferred qualifications include demonstrated excellence in the organization and leadership of a laboratory team, and productive efforts in international collaborations.**

HOW TO APPLY:

Applicants should send curriculum vitae, bibliography and 1,000 word overview of plans and preferences for a future program along with three reference letters (and the address and telephone numbers of those references) to: National Institute on Aging - Gerontology Research Center Attn: Karen L. Maben - Box 26-VA#NIA00-25 at 5600 Nathan Shock Drive, Baltimore, MD 21224. The deadline for application is September 30, 2000.

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required to do two years in the laboratory as part of their research training. "Postdocs spend a very broad range of time here," says Myers. "Their fellowships can last from a minimum of two to three years to seven or eight years." The longer fellowships don't represent wasted time. "Many of them have great success, publishing in high-quality journals and going on to independent positions in academic research," Myers explains.

A good proportion of Joslin's postdocs moves on to assistant professorships. Most of the rest go into industry, notably pharmaceutical firms and biotechnology companies.

The Joslin Center offers a wide spectrum of laboratory work for postdoctoral fellows. Myers himself has one postdoctoral student to help him in his research on the effect of signaling by the leptin receptor on obesity and the onset of diabetes. "I am looking for another one," he adds.

How should students seek out a postdoctoral position? "I would encourage people not to choose an institution," Myers says. "It's more important to pick the lab that suits your needs and interests." In particular, he adds, "Make sure that the principal investigator is involved with the students. Look at the track record of the lab. Talk to other postdocs there, and have a very frank discussion with the PI on how the lab is run."

As for assets in applying for a postdoctoral position, Myers notes that approved funding scores highly, followed by publication of one or two papers and coming from a good graduate institution. The cover letter has its own importance. "It should," says Myers, "be succinct, topical, and well-written."

BETHESDA, Maryland: Each year the National Institutes of Health takes in roughly 500–1,000 scientists who will spend up to five years as postdoctoral fellows. At any time, the agency directly supports about 1,000 United States residents and roughly the same number of visitors from abroad, who will return home to set up their own laboratories on completion of their training. The rest bring their own funding to their NIH experience.

Gaining funding is critical to the postdoctoral experience. "Almost everyone who comes to NIH is encouraged to apply for his or her own support," says Michael Gottesman, deputy director for intramural research at NIH and chief of the National Cancer Institute's Laboratory of Cell Biology. "We think that it's a career advantage to have competed for funds."

NIH needs two items from applicants for postdoctoral fellowships. "We want a cover letter explaining why the person is interested in joining the lab, outlining career goals and detailing accomplishments to date. Invariably we look for published work," Gottesman says. "We also want evidence via letters of reference that the person is a capable scientist. We want to know that the scientist is an independent thinker and a good communicator. It doesn't hurt if the student is also very smart."



NIH expects that research supervisors will also be mentors to their postdoctoral fellows and has prepared a *Guide to Mentoring and Training* for postdocs and their supervisors. The agency provides general coursework to acquaint postdocs with such issues as ethics, safety, sexual harassment, and technology transfer. And it offers its fellows information sessions on nonresearch careers including teaching, grant management, and science writing.

Of each year's intake of NIH's postdocs, roughly half go into academic positions as investigators with their own research support; of those, a small percentage takes tenure-track or staff scientist positions at NIH itself. Most of the rest go into industry, particularly biotechnology. And the small remainder start new careers in such science-related areas as patents, science policy, and science publications. "The unemployment rate of our postdoctoral fellows is close to zero," says Gottesman. "People are getting jobs, and most of them are getting good jobs."

SAN JOSE, California:

Agilent Technologies Inc., a technology firm created last year when Hewlett-Packard Company underwent a strategic realignment, has started to follow the European example of placing postdoctoral fellows in industrial R&D labs. "One of the main areas where we hire postdocs is the Agilent Laboratories," says Bill Buffington, general manager for Agilent's Bioscience Products group.

"That's the place where we take chances and look for those breakthrough technologies that could create the next big business opportunity. We need the best and the brightest. So we refresh our teams with new hires and postdoctoral students."

Agilent tracks down its postdocs largely through personal contacts. "We have a huge number of collaborations with universities," Buffington explains. "Through those we get contacts with graduate students looking for postdoctoral opportunities. We target individuals to help us rather than recruiting far and wide."

Agilent's postdocs undergo training different from that of their peers in academic laboratories. "The goal in academic life is publish or perish," says Buffington. "Industry is a commercial endeavor that does not have publishing papers as its main goal." Instead, he continues, postdocs are expected to work in multidisciplinary teams "to create new technologies or to combine technologies we have in new ways." One current project, for example, seeks to develop DNA microarrays using ink-jet technology. Agilent's postdoctoral fellowships usually last two years, appreciably less than academic postdocs.

Once they complete their assignments, postdocs have an inside track on permanent work at Agilent. "We certainly try to offer them jobs at the end," says Buffington. "There's nothing better than hiring people who have direct experience of the company." However, he emphasizes that Agilent has nothing against academic postdocs. "I've just hired two into our life science section here," he says.

Buffington predicts that job opportunities for postdoctoral fellows will expand spectacularly in coming years. "This is the golden age of life science," he says. "The revolution is starting. For 30 or more years it will be the top area with the discovery of disease processes and the ability to regulate what genes do. It's an enormously exciting time. If you're reasonably qualified you can get a job." ■



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Dreaming of a new job on the cutting edge of biotechnology?

Agilent Technologies is expanding its Bioscience Products business to develop the future of DNA microarray technology. Our products and services are expected to revolutionize the way pharmaceutical companies conduct disease discovery and target validation. Agilent uses inkjet-printing technology to provide a high degree of flexibility, speed, and quality in DNA microarray design and manufacture, enabling researchers to access genetic information faster and more cost effectively. Your expertise and commitment can earn you a place on our team. At Agilent, we make your dreams real.

Biochemist/Molecular Biologist

Work with internal and external collaborators, develop DNA microarray technologies and products for gene expression monitoring applications. Responsibilities include development and validation of DNA microarray technologies using quantitative hybridization and fluorescence based methods. Significant experience and interest in one or more of the following areas are highly desirable: microarray technology, quantitative nucleic acid hybridization, fluorescent labeling technology, instrumentation, experimental design. Additional responsibilities include statistical analysis of DNA-based assay performance and directing 1 or more technicians. Position requires a Ph.D. in Biochemistry or a related discipline with excellent statistical, analytical and organizational skills and experience in DNA/RNA manipulation. Job Ref. #686954 and #686885

Chemistry Manufacturing Development Manager

Lead a team to develop, characterize, monitor and continually improve the robustness and quality of consumable manufacturing process chemistries and manage the transfer of chemical processes from R&D into scaled production. Position requires a MS/Ph.D. Chem/ChemEng. and 5+ years of project/team management experience with demonstrated success in chemical process development. Job Ref. #666390

Process Engineering Development Manager

Lead a multi-disciplinary team of engineers and scientists in the support, analysis, and improvement of microarray fabrication processes; work with development teams to institute state-of-the-art array manufacturing technologies. Position requires a MS/Ph.D. ME, ChemEng., BioEng., Process Eng., or equivalent with 5+ years of project/team management experience, a track record for solving system problems, and a demonstrated ability to bring new products to market. Job Ref. #687981

Oligonucleotide Microarray Development Scientist

Contribute to and coordinate a project in oligonucleotide array generation and optimization. Responsible for development of advanced microarray technologies, including DNA deposition, quantitative nucleic acid hybridization, and statistical data analysis. Additional responsibilities include directing of 1 or more technicians and interaction with external collaborators. Position requires a Ph.D. in Biochemistry, Molecular Biology or a related discipline, and substantial experience in an R&D environment. Experience with genomics technologies and microarray methodology preferred. Ability to work in a team environment and excellent communication skills are necessary. Job Ref. #685006

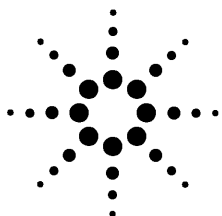
R&D Physicist

Be a key contributor on the R&D team in system design on our microarray scanners. Work with a multidisciplinary team to optimize system performance while specifically addressing issues of optics, detectors, laser light sources and detection processes. Investigate the best design for our next generation of fluorescence detection instrumentation. Position requires a MS or Ph.D. in Physics or equivalent and 5 years of experience in instrument design preferably in optical scanning, lens design, or opto-mechanics. Experience with fluorescence, phosphorescence, and (chemo-) luminescence is a plus. Responsibilities include design maintenance. Demonstrated ability to work on cross-functional teams and ability to interface with customers is required. Job Ref. #206987

Quality Function Manager

Lead the Quality Function in developing and maintaining our business quality system, developing effective quality strategies for all of our microarray products, and providing the QA/QC chemical assay support to our new product development and product manufacturing efforts. Position requires MS Chem/BioChem and 5+ years of experience in implementing and maintaining a dynamic ISO9001 quality system. Job Ref. #681121

Agilent offers competitive compensation and excellent benefits. For immediate consideration, please e-mail your resume with cover letter (indicating Ad #8788 and Job Ref. #) to: resume@agilent.com OR mail to: Agilent Technologies, Employment Response Center, MS 53U-GB, 5301 Stevens Creek Blvd., Santa Clara, CA, 95052-8059. Agilent Technologies is an equal opportunity employer committed to global workforce diversity and work/life programs.



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POSITIONS OPEN

POSTDOCTORAL TRAINING PROGRAM CANCER BIOLOGY

The Massey Cancer Center, located on the Medical College of Virginia campus of Virginia Commonwealth University, announces the recruitment of **POSTDOCTORAL FELLOWS** to a newly funded training program in cancer biology. This program includes classroom training, an integrated series of seminars and journal clubs, and more than 25 laboratories performing innovative research in the fields of developmental therapeutics, cancer cell biology and genetics, radiation biology and oncology, and immune mechanisms. Potential candidates may consider (among others) laboratories that focus on the role of oncogenes and tumor suppressor genes in the regulation of oncogenesis and the response to radiation and chemotherapy, DNA strand break repair, signal transduction pathways, cell-cycle regulation and the promotion of apoptosis, DNA methylation, gene regulation and differentiation, gene therapy and radiosensitization, telomerases and cell immortalization, and immune cell biology and immunotherapy. Recent additions to this program have been transgenic mouse and laser capture microdissection facilities. A full description of research opportunities will be sent to eligible candidates. For more information, see **website: http://www.vcu.edu/mcc/CB_T32.htm**. Support through this granting mechanism is limited to U.S. citizens and permanent residents. Prospective candidates should send a letter indicating research interests and long-term career goals, curriculum vitae, and three letters of recommendation to: **Dr. Gordon Ginder, Director, Massey Cancer Center, P.O. Box 980037, Richmond, VA 23298-0037**.

Three funded **POSTDOCTORAL POSITIONS** available immediately in neuroscience at Georgia State University in Atlanta.

Charles Derby: Research on functional organization of olfactory systems using crustacean models. Possible projects include cellular and molecular control of development of olfactory neurons, electrophysiology of developing receptor neurons, neuroanatomical connections using tract-tracing techniques, and behavioral role of neural pathways using laboratory flumes.

Paul Katz: Research on how serotonin is regulated and integrated into the well-studied swim central pattern generator circuit in the sea slug *Tritonia diomedea*. Potential projects use confocal microscopy, real-time imaging, flash-photolysis of caged compounds, microvoltammetry, and computer modeling. Preference for applicants with electrophysiology experience.

Sarah Pallas: Research in developmental and sensory neuroscience. Projects include role of activity/LTP in development of retinotectal projections in rodents and role of experience in development of sensory cortex in ferrets (cross-modal plasticity). Experience with electrophysiology, *in situ* hybridization, and/or neuroanatomical techniques is desirable.

Georgia State University is a well-funded member of a highly interactive Atlanta neuroscience community. Visit **website: <http://biology.gsu.edu/neuro>** for more information. Send curriculum vitae and names and contact information of three references to the faculty member of interest at: **Department of Biology, Georgia State University, P.O. Box 4010, Atlanta, GA 30302-4010**.

POSTDOCTORAL POSITION

Postdoctoral position available immediately to study the molecular regulation of transcript elongation by RNA polymerase II. Candidate must have Ph.D. in biochemistry, molecular biology, or related field. Applicants must be U.S. citizens or permanent residents. Please send curriculum vitae and three recommendation letters to: **Dr. Michael G. Izban, Department of Obstetrics/Gynecology and Sealy Center for Molecular Science, The University of Texas Medical Branch, 301 University Boulevard, Galveston, TX 77555-1062. E-mail: mizban@utmb.edu**. University of Texas Medical Branch is an Equal Opportunity/Affirmative Action Employer; Minorities/Females/Disabled/Veterans.

POSITIONS OPEN

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<http://www.training.nih.gov>

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POSTDOCTORAL POSITIONS IN VACCINE RESEARCH AND LIPID IMMUNOLOGY

NRC RESEARCH ASSOCIATESHIPS are available to develop vaccines against infectious agents and toxins. Additional research opportunities are available for studies on the basic immunology of lipids such as squalene and cholesterol. The research will involve the use of liposomes/liposomal emulsions as carriers of antigens and adjuvants and/or skin patch immunization. Experience in biochemical and immunological techniques is desirable. Salaries are highly competitive.

Please send curriculum vitae and names of three references to: **Dr. Carl R. Alving (Attention: Janet O'Brien), Department of Membrane Biochemistry, Walter Reed Army Institute of Research, 503 Robert Grant Avenue, Room 2A24, Silver Spring, MD 20910-7500. FAX: 301-319-9035; e-mail: janet.obrien@na.amedd.army.mil**.

POSTDOCTORAL POSITION Retinal Neurobiology

Postdoctoral position available to study the cellular and molecular neurobiology of neural network adaptation in the vertebrate retina. The project uses electrophysiological recording from retinal neurons and ion channels, gene cloning and analysis, heterologous expression of ion channel genes, and calcium imaging to examine the function and modulation of retinal electrical and glutamatergic synapses. Experience in one of these approaches or previous training in visual neuroscience is desirable. A stimulating environment with multiple laboratories interested in the molecular substrates for behavior and perception ensures broad training in molecular neuroscience. Contact: **Douglas McMahon, Ph.D., Department of Physiology, University of Kentucky, Lexington, KY 40536-0084. FAX: 859-323-1070; e-mail: dgmcmal@pop.uky.edu**.

POSTDOCTORAL POSITION in cognitive neuroscience/attention. Available in the Department of Physiology, University of Wisconsin, to study role of corticothalamic pathways and thalamic reticular nucleus in neural mechanisms of attention, using behavioral, c-fos, neurochemical (HPLC), and electrophysiological methods. (See *Neuroscience* 76:1061-1081, 1997; *Neuroscience* 91:805-817, 1999; *Brain Research* 864:95-104, 2000; and **website: <http://www.physiology.wisc.edu/www/montero.html>** for further details.) Strong background in cognitive/systems neuroscience required. Send curriculum vitae and names of three references to: **Dr. Vicente Montero, 621 Waisman Center, 1500 Highland Avenue, Madison, WI 53705. FAX: 608-265-4103; e-mail: montero@waisman.wisc.edu**.

POSTDOCTORAL POSITION available immediately to participate in our rapidly expanding genomics project to identify genes that influence alcohol-drinking behavior. The project includes development of congenic rat strains, analysis of gene expression under a variety of experimental conditions using microarray technology, and real-time PCR and identification of polymorphism in candidate genes. Candidates with experience in molecular genetics and/or molecular biology should forward their curriculum vitae to: **Lucinda Carr, Ph.D., Indiana University School of Medicine, 975 West Walnut Street, IB407, Indianapolis, IN 46202-5121. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS in heart development. A cluster of laboratories working in molecular and cellular aspects of embryonic heart development is jointly seeking to fill Postdoctoral positions. Funding is available immediately for qualified candidates with a Doctoral degree and an interest in either cardiac muscle or heart valve development. Research opportunities are available with **R. B. Runyan** (transcriptional regulation of valve formation), **R. L. Heimark** (cadherins and catenins in valve formation), **P. A. Krieg** (regulation of cardiac muscle commitment), and **C. C. Gregorio and P. B. Antin** (organization of myofibrils and muscle differentiation). The proximity of these and other laboratories within a program project grant provides a unique environment for diverse training in the embryology of the early heart. Application review will begin on September 11, 2000, and will continue until filled. Interested candidates should send a letter of interest in one or more laboratories referencing Job Number and curriculum vitae to: **Audrey Pallette, University of Arizona, Department of Cell Biology and Anatomy, P.O. Box 245044, Tucson, AZ 85724-5044. Human Resources website: <http://w3.arizona.edu/~ahschr/jobs.htm>**. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.

DEPARTMENT OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS TUFTS UNIVERSITY

A **POSTDOCTORAL POSITION** is available to study mechanisms of synaptic plasticity in CNS monoamine systems. Patch clamp and related electrophysiology experience (in neuronal or other tissue) is essential. The laboratory directly measures monoamine quanta from presynaptic sites. (see *J. Neurosci.* 18:4106-4118; *J. Neurosci.* 18:5578-5585; *Rev. Neurosci.* 11:No. 1.)

Applicants should send curriculum vitae and names (including e-mail addresses) of three references to: **Dr. Emmanuel Pothos, Department of Pharmacology and Experimental Therapeutics, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111.**

Tufts is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE DEPARTMENT OF PSYCHOLOGY THE UNIVERSITY OF ARIZONA

POSTDOCTORAL POSITION available immediately to study mechanisms of visual attention in nonhuman primates. Qualifications: Ph.D. with strong background in behavioral methods and physiological (single unit or ensemble recording). Salary: up to \$30,000 annually. To apply, send curriculum vitae and the names and contact information for three references to: **Dr. Peter DeWeerd, Psychology Department, The University of Arizona, P.O. Box 210068, Tucson, AZ 85721-0068. E-mail: pdeweerd@u.arizona.edu; Telephone: 520-626-2609**. Review of application materials begins September 15, 2000, and will continue until position is filled. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.

POSTDOCTORAL POSITION

An exciting Postdoctoral position is available immediately to study antigen processing and presentation, T cell repertoire, and autoimmunity. Applicants should have a Ph.D. and/or M.D. and experience in molecular/cellular immunology. A strong background in molecular biology, particularly in site-directed mutagenesis, is preferred. Send curriculum vitae and three letters of reference to:

Dr. Kamal D. Moudgil, M.D., Ph.D.

Associate Professor

**Department of Microbiology and Immunology
University of Maryland School of Medicine
655 West Baltimore Street
Baltimore, MD 21201
FAX: 410-706-2129
E-mail: kmoud001@umaryland.edu**



**MAYO CLINIC
DEPARTMENT OF PHYSIOLOGY
AND BIOPHYSICS**

A Mayo Clinic postdoctoral research position is available to study the molecular and physiological properties of peripheral autonomic ganglion neurons with special emphasis on sympathetic prevertebral ganglion neurons. Patch clamp recordings, sharp microelectrode recordings, laser scanning confocal microscopy and 3-D volume reconstruction are some of the approaches emphasized. Candidates with experience in the above mentioned methods are preferred. Candidates must have an MD or PhD degree. Please send curriculum vitae and the names of three references to:

J.H. Szurszewski, Ph.D.
Department of Physiology and Biophysics
Mayo Clinic
200 First Street, SW
Rochester, MN 55905, USA
e-mail: gijoe@mayo.edu

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Princeton University seeks interdisciplinary scholars for the Princeton Environmental Institute (PEI) Fellows Program. Postdoctoral fellowships will be offered to exceptional candidates with Ph.D. in relevant fields of science and engineering.

Research will encompass the global carbon cycle, carbon mitigation science and technology, global change, biodiversity, global hydrology and various aspects of molecular environmental science. Fellows will have an opportunity to join an exciting, long-term interdisciplinary research program on the global carbon cycle and mitigation. We seek several postdoctoral associates to participate in this major, newly funded initiative.

The PEI Fellows form an interdisciplinary group of young scholars on the Princeton campus and have considerable latitude in defining a research program. Duration of fellowship up to three years. Applicants should submit a cv, three letters of reference and a research proposal not to exceed 600 words to **Janet Gruschow, Executive Director, Princeton Environmental Institute, 25 Guyot Hall, Princeton University, Princeton, NJ 08544-1003**. Files will be reviewed beginning September 30, 2000.

Further information on PEI is available at <http://www.princeton.edu/~pei/>.

*Princeton University is an affirmative-action/
equal-opportunity employer.*

The Postdoctoral Fellowship Program at Eli Lilly and Company was initiated in 1986. The program annually supports over 70 Postdoctoral Fellows, with approximately 15 in the Neuroscience Division. This program is a partnership in which Lilly is able to expand its role as an industry leader by creating an environment in which the Postdoctoral Fellow participates in, and contributes to, biomedical research. For up to three years, the Fellow experiences exceptional opportunities, training and rewards including:

*Eli Lilly and Company
currently seeks applicants for
the Postdoctoral Fellowships
listed below.*

- Collaboration with a mentor who has a strong, well-documented scientific research program
- Access to superior facilities and resources
- The opportunity to interact across scientific disciplines
- Very competitive pay and benefits
- Affiliation with a progressive company known worldwide for its tradition of excellence in research

Eli Lilly and Company's Postdoctoral Fellowship program is an outstanding springboard from which to launch your scientific career. Publication of scientific findings in major professional journals is strongly encouraged. Lilly Postdoctoral Fellows are regularly recruited and hired by leading academic, government, biotechnology and pharmaceutical institutions worldwide.

Neuroscience Division

Multiple postdoctoral positions are available in our Neuroscience Division including positions within Molecular Biology, Behavioral Pharmacology, Electrophysiology, and Biochemistry Pharmacology. For more information and to submit your resume for confidential review, please access our website at www.lilly.com. Please also reference Source Code: **ADSCMNE01**

Research Technologies and Product Development Division

Multiple postdoctoral positions are available including the following:

- Recent PhD in immunology or related field to study function of novel secretory immune system and growth factor-related genes both in vivo and in vitro. Source Code: **ADSCMPD10**. Contact: Dr. Songqing Na via e-mail: na_songqing@lilly.com.
- Recent PhD in Biochemistry or related field to join the protein purification group. Source Code: **ADSCMPD11**. Contact: Dr. Gerald Becker via e-mail: becker_gerald_w@lilly.com.
- Recent PhD in Molecular Biology, Pharmacology, Cell Biology or related field to join a group using novel cell-based fluorescence assays to monitor changes in cellular metabolism and signal transduction. Source Code: **ADSCMPD12**. Contact: Dr. Jonathan Lee via e-mail: lee_jonathan_allen@lilly.com.

For confidential consideration, please submit your resume through our website at www.lilly.com or send your resume to: **Eli Lilly and Company, US Recruiting and Staffing, Lilly Corporate Center, DC 1811, Indianapolis, IN 46285**. Please include Source Code.

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POSITIONS OPEN



United States Department of Agriculture

RESEARCH CHEMIST, GS-1320-12/13/14 Insect Chemical Ecology Laboratory Plant Sciences Institute Agricultural Research Service

The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Plant Sciences Institute, Insect Chemical Ecology Laboratory in Beltsville, Maryland is seeking applications for a Research Chemist, GS-1320-12/13/14. Salary is commensurate with experience (\$51,204 to \$93,537 per annum) plus benefits. *Candidates must be U.S. citizens.* The incumbent will be responsible for planning and conducting the complex chemical aspects of research directed at minimizing reliance on the use of insecticides.

Candidates must request a copy of the vacancy announcement (ARS-DOE-4092) by either calling **Telephone: 301-504-1484** or by copying the full text announcement from the ARS website: **www.ars.usda.gov**. Candidates must submit specific information as outlined in the vacancy announcement. Applications must be postmarked by the closing date of September 5, 2000. *USDA/ARS is an Equal Opportunity Provider and Employer.*

TUMOR IMMUNOLOGY

Immediately available for two to three **POSTDOCTORAL POSITIONS** to study (1) tumor immunotherapy targeted at the shared tumor antigens (*JEM*, 189:811, 1999); (2) costimulatory molecules B7:CTLA4 interaction in antitumor immune response (*PNAS* 95:6284, 1998; *JEM* 185:1327, 1997); (3) molecular mechanisms of tumor evasion of preexisting CTL response (*Nature* 396:373, 1998; *Cancer Res.* 59:3461, 1999); (4) role of CD24 in pathogenicity of autoreactive T cells (*JCI* 105:1227, 2000). Ph.D. in immunology or molecular biology is required. Send curriculum vitae and names of three references to: **Dr. Yang Liu/Dr. Pan Zheng, Department of Pathology, The Ohio State University, 129 Hamilton Hall, 1645 Neil Avenue, Columbus, OH 43210. FAX: 614-688-8152; e-mail: liu-3@medctr.osu.edu or zheng-1@medctr.osu.edu.**

POSTDOCTORAL POSITIONS W. HARRY FEINSTONE CENTER FOR GENOMIC RESEARCH

Positions are available immediately to study chemical carcinogenesis, cancer chemoprevention, regulation of basic helix-loop-helix transcription factors, and genechip analysis of drug efficacy and toxicity. Experience in molecular/cellular biology and cell culture techniques or xenobiotic metabolism and analytical chemistry is required. Graduates with a degree in biology, biochemistry, or toxicology are encouraged to apply. These positions are for one year with the possibility of renewal for up to three years. Interested individuals should provide their curriculum vitae and a list of three references to: **Dr. Thomas R. Sutter, University of Memphis 201, Life Sciences Building, Memphis, TN 38152-3560. The University of Memphis is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION IN DEVELOPMENTAL IMMUNOLOGY

Postdoctoral Fellow will study the molecular mechanism of T cell development in mice. This position requires a Ph.D. or M.D. degree and experience in molecular and cellular biology. The Holland Lab is the research division of the American Red Cross located in Rockville, Maryland, 10 miles north of the NIH in suburban Washington, D.C., and is affiliated with George Washington University Medical School. Please send curriculum vitae to: **Dr. Lisa Spain, c/o American Red Cross, Holland Laboratory, 15601 Crabbs Branch Way, Rockville, MD 20855. E-mail: SpainL@usa.redcross.org. Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.**

POSITIONS OPEN

POSTDOCTORAL POSITION MOLECULAR PHARMACOLOGY

The Laboratory of Molecular Pharmacology (website: <http://www.nci.nih.gov/intra/lmp/lmppage.htm>), Division of Basic Sciences, National Cancer Institute, National Institutes of Health, invites applicants for a Postdoctoral position in molecular pharmacology and therapeutics. Candidates should have a Ph.D. or M.D. and expertise in DNA damage and repair, cell cycle checkpoint, and chromatin structure. A one- or two-page statement of research interests and goals should be submitted, in addition to three letters of recommendation and curriculum vitae and bibliography, to: **Ms. Althea Jackson, LMP, NCI, NIH, Building 37, Room 5D02, 37 Convent Drive, Bethesda, MD 20892-4255. Telephone: 301-435-8232; FAX: 301-402-0752; e-mail: tjaj@box-t.nih.gov. The National Cancer Institute is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION Neuronal Gene Expression Imaging

Postdoctoral position available to study real-time gene expression dynamics in living cells and circuits of the brain. The project uses transgenic mice expressing novel fluorescent gene reporter constructs (Kuhlman et al., *Neuroreport* 11:1479-1482, 2000), fluorescent imaging, gene expression profiling, and electrophysiological recording to examine basic mechanisms of the brain's biological clock and of neural plasticity. Experience in one of these approaches or in circadian rhythms research is desirable. A stimulating environment with multiple laboratories interested in the molecular substrates for behavior and perception ensures broad training in molecular neuroscience. Contact: **Douglas McMahon, Ph.D., Department of Physiology, University of Kentucky, Lexington, KY 40536-0084. FAX: 859-323-1070; e-mail: dgmcmal@pop.uky.edu.**

POSTDOCTORAL POSITIONS available in December 2000 to study the molecular mechanisms involved in neuropeptide regulation of mucosal epithelial cell differentiation as a function of cellular adhesion and motility. Applicants must be highly experienced in molecular and/or cell biological procedures and at least one of the following: heterologous gene expression systems, *in situ* hybridization, protein biochemistry, immunological methods, ligand binding studies, or microscopy (light and electron). Please send curriculum vitae and the names and telephone numbers of three references to: **Dr. Gregory W. Aponte, Department of Nutritional Sciences and Toxicology, 119 Morgan Hall, University of California, Berkeley, CA 94720-3104. Telephone: 510-642-7226; e-mail: gwa@nature.berkeley.edu. The University of California is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE RECEPTOR BIOLOGY LABORATORY Department of Physiology and Biophysics Mayo Foundation, Rochester, Minnesota

Position available for highly motivated individual to study structure-function relationships of nicotinic acetylcholine receptors. Approaches include site-directed mutagenesis; receptor expression in mammalian and bacterial cells; biochemical, pharmacological, and structural analysis; and single-channel recording and kinetic analysis. Experience in one or more of these approaches desired. Send statement of research interests and curriculum vitae to: **Dr. Steven M. Sine, Mayo Clinic, 200 First Street S.W., Rochester, MN 55905.**

POSTDOCTORAL POSITIONS available immediately to characterize cellular proteins and genes involved in cholesterol transport. Experience in molecular/cellular biology or with mouse models is required. Send curriculum vitae and letters of recommendation to: **Dr. John F. Oram, Department of Medicine, Box 356426, University of Washington, Seattle, WA 98115-6426. E-mail: joram@u.washington.edu.**

POSITIONS OPEN



POSTDOCTORAL POSITION UNIVERSITY OF MICHIGAN COMPREHENSIVE CANCER CENTER

The laboratory of **Dr. Mark Day** is seeking postdoctoral candidates interested in studying molecular carcinogenesis of the mammary gland and prostate gland. Specific research focuses on cellular adhesion and cell cycle regulation of homeostasis in these tissues. Highly motivated individuals with a Ph.D. and experience in cellular and molecular biology, protein biochemistry and knockout or transgenic models are encouraged to apply. Cell adhesion and cell cycle research experience would be beneficial but not required. This new laboratory is located in the recently constructed University of Michigan Comprehensive Cancer Center. Competitive salary and benefits are available. *Applicants must be U.S. citizens.* Send a letter explaining your research interests and curriculum vitae to: **Mark L. Day, 1500 East Medical Center Drive, 6219 CCGC, Ann Arbor, MI 48109-0944. E-mail: mday@umich.edu.**

POSTDOCTORAL POSITIONS MOLECULAR VIROLOGY

Postdoctoral positions are available at the University of Texas Medical Branch at Galveston to participate in NIH-funded research on the molecular mechanisms of Venezuelan equine encephalitis emergence and on antiviral development using combinatorial approaches. These positions offer outstanding training opportunities in the World Health Organization Collaborating Center for Tropical Diseases and the Sealy Center for Structural Biology. Candidates should have a Ph.D. degree with a strong background in molecular biology; experience in virology is preferred. Applicants should send curriculum vitae and names, addresses, and telephone numbers of three references to: **Dr. Scott Weaver, Department of Pathology, University of Texas Medical Branch, 301 University Boulevard, Galveston, TX 77555-609. E-mail: sweaver@utmb.edu. University of Texas Medical Branch is an Equal Opportunity/Affirmative Action Employer; Minority/Female/Disabled/Veteran.**

JOSLIN DIABETES CENTER HARVARD MEDICAL SCHOOL

Positions for **POSTDOCTORAL SCIENTISTS** available. **Dr. Martin Myers, M.D., Ph.D.**, studies the basic biochemistry and cell biology of cytokine receptor signaling by the leptin receptor and its role in neuroendocrine function. **Dr. Terry Maratos-Flier, M.D.**, investigates biology and physiology relevant to the actions of neuropeptides involved in energy homeostasis, specifically MCH and the MCH receptor. **Dr. Bentley Cheatham, Ph.D.**, studies the cell biology of vesicle transport/biogenesis in adipocytes and the role of the newly identified pantophysin in membrane trafficking events. Send letter indicating laboratory of interest and curriculum vitae to: **Nancy Feinman, Research Division, Joslin Diabetes Center, 1 Joslin Place, Boston, MA 02215. E-mail: nancy.feinman@joslin.harvard.edu.**

POSTDOCTORAL POSITIONS are available immediately to qualified candidates for studying (1) genes involved in the loss of photosynthetic capacity during plant growth in elevated carbon dioxide and (2) the cellular and molecular biology of deacclimation of freezing tolerance in plants. A Ph.D. in biochemistry or molecular biology is required. *Candidates must be U.S. citizens or from specific treaty nations.* Applications specifying which position is sought should be mailed by September 1, 2000. Contact: **Dr. Eliot Herman, U.S. Department of Agriculture-Agricultural Research Service, Climate Stress Laboratory, Building 046-A, BARC-West, Beltsville, MD 20705-2350. Telephone: 301-504-5258; e-mail: HermanE@ba.ars.usda.gov. The USDA is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH

The Wistar Institute, an independent research organization located on the University of Pennsylvania campus, currently seeks postdoctoral applicants in the areas listed below; these are permanent, year-round opportunities.

Chromatin Regulation – Research focuses on the role of histone modifications during gene activation, including both acetylation and phosphorylation. Studies include genetic and biochemical approaches to investigate protein complexes bearing modification enzymes, both in *S. cerevisiae* and in humans. We are also specifically interested in modifications of p53 itself and p53-mediated modifications of histones in normal and neoplastic states. Recent publications include: Lo et al. (2000) *Molecular Cell* 5:917-926; Belotserkovskaya et al. (2000) *Mol. Cell. Biol.* 20: 634-647; Liu et al. (1999) *Mol. Cell. Biol.* 19:1202-1209. Reply to: **Dr. Shelley L. Berger.**

Immune responses to genetic vaccines. Basic research projects geared towards pre-clinical development of vaccines to HIV and HPV-associated cancer. Specifically, one project entails optimization of DNA vaccines through molecular manipulations of the vector. The second project aims to define basic vaccine-induced immune mechanisms that cause tumor rejection. Reply to: **Dr. H.C.J. Ertl.**

Humoral and Cellular Immunology – Study immune responses of breast cancer patients and rats to mutated epidermal growth factor receptor. Candidate must have strong background in humoral and cellular immunology. Reply to: **Dr. Dorothee Herlyn.**

Regulation of Epstein-Barr virus latency and reactivation in B-lymphocytes; mechanisms of gene expression and repression; DNA replication and cell cycle coordination of gene expression. Individuals with training in molecular biology, biochemistry, virology, and yeast genetics are encouraged to apply. Reply to: **Dr. Paul Lieberman.**

Successful candidates will have a Ph.D. and/or M.D./Ph.D. in the biological sciences. Please send a C.V. and three letters of reference to the **Human Resources Dept., Attn: (appropriate faculty member), The Wistar Institute, 3601 Spruce Street, Philadelphia, PA 19104.** For more information about The Wistar Institute, visit our Web site at www.wistar.upenn.edu. EOE/AA/M/F/D/V.

Structural Biology – Biochemical and crystallographic studies of macromolecular assemblies associated with various aspects of transcriptional regulation. Current areas of focus include the mechanism of histone acetylation in gene activation (*Mol. Cell.* 5, 2000, 917-26; *Nature* 401, 1999, 93-7; *PNAS* 96, 1999, 8931-6; *EMBO J.* 18, 1999, 3521-32), and protein-DNA recognition (*Nature Struct. Biol.* 7, 2000, 292-7; *Nature Struct. Biol.* 6, 1999, 64-71; *Nature Struct. Biol.* 6, 1999, 22-7). Several projects relevant to the connection between aberrant gene regulation and cancer are also ongoing (*Cancer Res.* 15, 1999, 5275-82; *Mol. Cell. Biol.* 19, 1999, 1202-9). The laboratory uses a combination of molecular, biochemical, biophysical and structural techniques. Experience in X-ray crystallography and/or biochemistry is preferred. Reply to: **Dr. Ronen Marmorstein.**

Regulation of transcription through chromatin and DNA Repair. Biochemical and molecular characterization of novel chromatin remodeling complexes in human cells using nucleosome disruption assays and transcription. We are also characterizing the connection of the transcription machinery to that of DNA repair, with specific emphasis on protein complexes containing BRCA1 and BRCA2. *Cell* 102:257 (2000); *Genes and Dev* 14:1048 (2000); *PNAS* 97:1038 (2000). Motivated scientists with Ph.D. in any discipline of biological sciences, with experience in molecular biological techniques and protein purification preferred. Reply to: **Dr. Ramin Shiekhattar.**

Molecular genetics of transcription in *Drosophila*. Main research interest of the lab is to understand the mechanisms of how insulator and anti-insulator elements function to regulate long-range enhancer-promoter interaction in large gene complexes (Zhou et al., *Cell*, Vol. 99, 567-575, December 10, 1999). Recent Ph.D. and experience in biochemistry and molecular biology, or *Drosophila* genetics and molecular biology required. Reply to: **Dr. Jumin Zhou.**



Postdoctoral Fellowships in the Radiation Sciences

Department of Environmental and Occupational Health
Graduate School of Public Health
University of Pittsburgh

The goal of the program is to replenish the national pool of doctoral-level, multidisciplinary radiation professionals in governmental, academic and industrial positions. The two-year program includes any needed course work; in-house laboratory rotations; colloquia and seminars; a radiation epidemiology workshop and up to a year of field experience at domestic or foreign sites of interest to the Department of Energy. Qualified physicians may integrate DOE Fellowship training with the department's Occupational Medicine Residency program.

Areas of concentration include:

- radiation epidemiology and biostatistics
- health physics and radiobiology
- biological dosimetry, biomarker development and application
- occupational medicine

Applicants should have a recent doctoral degree in science, medicine, or law (Ph.D., D.Sc., Dr.P.H., M.D., D.O., J.D.) and US citizenship or permanent residency. Stipend: \$33,500 first year, \$36,000 second year. Health insurance and travel allowances to the field site are provided.

For more information, contact **Dr. H. Gregg Claycamp, Program Director, University of Pittsburgh, 260 Kappa Drive, Pittsburgh, PA 15238; Telephone: 412-967-6514; fax: 412-624-1020 Email: hgc2+@pitt.edu**

POST DOCTORAL FELLOWSHIPS

FOUNDATION FOR
RESEARCH, SCIENCE AND TECHNOLOGY

Tuapapa Toha Putea, Whakatakoto Kaupapa Rahahau, Putaiao

The NZ Science & Technology Post-Doctoral Fellowships scheme provides early career support for New Zealand scientists of outstanding talent for three years post-doctoral research either in New Zealand or overseas. Applicants must be citizens or permanent residents of New Zealand.

Fellowships will have a value of NZ\$65,000 per year; stipend of NZ\$44,444 with the balance available to cover associated costs including relocation. For those Fellowships taken up outside of New Zealand an overseas loading is applied.

Applications close 4.30pm Friday, 6 October 2000.

Information & application forms are available on-line from www.frst.govt.nz. For further information contact:

Foundation for Research, Science & Technology
PO Box 12 240, Wellington
Tel: +64 4 917 7800, Fax: +64 4 917 7850
Email: pdfs@frst.govt.nz
Website: www.frst.govt.nz

GLOBAL OPPORTUNITIES

National Health Research Institutes Taiwan 2001 Postdoctoral Fellowship Award

Eligibility

Four awards are provided for candidates who received their Ph.D. degree on or after January 1, 1997, in medical, health and related sciences with outstanding records. Applicants must obtain consent from a sponsoring institution and a principal investigator in Taiwan to accommodate research.

Terms

- Two years of support for full-time research in Taiwan, with another two-year extension upon review.
- NT\$71,000 (approx. US\$2,000) monthly stipend.
- Max. NT\$300,000 (approx. US\$9,000) annual research allowance.
- Max. NT\$50,000 (approx. US\$1,500) international meeting allowance once a year upon review.

Schedule

- Application Deadline: Oct. 31, 2000.
- The 2001 Award start: Jan. 01 to June 30, 2001.



Application Procedures/Forms:

Tel: 886-2-26524054

Fax: 886-2-26513723

E-mail: edu@nhri.org.tw

<http://www.nhri.org.tw/en/edu>

National Health Research Institutes
3F, 109 Min-Chuan E. Rd, Sec. 6
Taipei 114, Taiwan, R.O.C.

POSITIONS OPEN

POSTDOCTORAL FELLOW NATIONAL CANCER INSTITUTE

My laboratory has an immediate opening for a Postdoctoral Fellow with a strong background in molecular biology, preferably with experience in the area of retinoid metabolism. We are using a variety of *in vivo* and *in vitro* state-of-the-art systems along with mathematical modeling techniques to delineate basic control mechanisms involved with retinoid function and interactions in both normal and malignant tissues. Candidates should have received their Ph.D. and/or M.D. within the past five years and be eligible for an appropriate U.S. visa if necessary. Mail curriculum vitae and names, addresses, and telephone numbers of three references to: **Dr. Kevin C. Lewis, Drug-Nutrient Interaction Group, Basic Research Laboratory, Division of Basic Sciences, National Cancer Institute, FCRDC, NIH, Building 560, Room 12-27, Frederick, MD 21702. Telephone: 301-846-5161; e-mail: lewiskc@ncifcrf.gov.**

U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Beneficial Insects Introduction Research Laboratory seeks a **POSTDOCTORAL RESEARCH ASSOCIATE** to study site matching for exotic species introductions. The position is for two years beginning in fall 2000. Ph.D., knowledge of evolutionary ecology, and experience with statistical modeling and geographical information systems. Annual salary is \$42,919 plus benefits. Please send curriculum vitae and names, addresses (including e-mail), and telephone numbers of three references by 30 September 2000 to: **Dr. Keith R. Hopper, USDA-ARS-BIIRL, 501 South Chapel Street, Newark, DE 19713. E-mail: khopper@udel.edu; Telephone: 302-731-7330, Extension 38; FAX: 302-737-6780. ARS is an Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS to study the CFTR chloride channel that is implicated in cystic fibrosis (CF) and secretory diarrhea (SD). Our recent studies have uncovered novel intermolecular and intramolecular interactions that regulate CFTR channel activity (e.g., *Science* 286:544, 1999; *Nature* 390:302, 1997). Current efforts are directed toward characterizing the structural basis of each of these regulatory interactions and identifying peptides and small molecules that can manipulate CFTR channel activity in CF and SD. Ph.D. and/or M.D. required. Expertise in biochemistry, molecular biology, or electrophysiology preferred. Contact: **Kevin L. Kirk, Ph.D., Department of Physiology and Biophysics, University of Alabama at Birmingham, 982B MCLM, Birmingham, AL 35294-0005. E-mail: kirk@physiology.uab.edu.**

Several **POSTDOCTORAL POSITIONS** in X-ray crystallography are available immediately to study proteins involved in blood clotting, multienzyme complexes, and cell signaling (*Nature* 406:101-104, 2000). Applicants should be experienced in either macromolecular crystallography or in molecular biology and protein expression/purification. The laboratory is located in state-of-the-art facilities in the new Lerner Research Institute, which is also a partner in a synchrotron beam line at the Advanced Light Source. Please send a cover letter, curriculum vitae, and list of three references to: **Vivien Yee, Department of Molecular Cardiology/NB20, Lerner Research Institute, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. E-mail: yeev@ccf.org; website: www.lerner.ccf.org/labs/yee/. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.**

A **POSTDOCTORAL POSITION** is available to study the function and regulation of the MDM2 oncogene (*JBC* 274:15271; *Oncogene* 19:232). A Ph.D. degree and strong background in molecular biology and biochemistry are required. Please send curriculum vitae and support letters to: **Dr. Jiandong Chen, H. Lee Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, FL 33612. E-mail: jchen@moffitt.usf.edu. The University of South Florida is an Affirmative Action/Equal Access/Equal Opportunity Institution.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS MOLECULAR IMMUNOLOGY

A new complement group is being established and positions are available to study (1) the role of complement and selectins in inflammation and strategies to target inhibitors to sites of complement activation and disease, (2) the molecular interaction between the complement inhibitor CD59 and its ligands, and (3) the role of complement inhibitors in promoting tumor growth and complement-associated tumor evasion mechanisms. Successful candidates will also be encouraged to develop their own interests, and there are good opportunities for collaborations with other groups within the University that are interested in complement-dependent disease mechanisms. Curriculum vitae and references to: **Dr. Stephen Tomlinson, Medical University of South Carolina, BSB 201, Charleston, SC 29425. E-mail: tomlinss@musc.edu.**

POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL BRIGHAM AND WOMENS HOSPITAL

One NIH-supported position is available immediately at the Infectious Disease Division. The successful applicant will study protective immunity to bacterial polysaccharides of Group B streptococci. Applicants should have an M.D. and/or Ph.D.; immunology experience is a must. Send curriculum vitae, relevant reprints, and names of three references to: **Hilde-Kari Guttormsen, M.D., Ph.D./Dennis L. Kasper, M.D., Channing Laboratory, 181 Longwood Avenue, Boston, MA 02115. FAX: 617-731-1541; e-mail: hilde-kari.guttormsen@channing.harvard.edu. We are an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

POSTDOCTORAL POSITION CALIFORNIA PACIFIC MEDICAL CENTER A SUTTER HEALTH AFFILIATE

California Pacific Medical Center in San Francisco has a Postdoctoral position for an individual to perform integrated functional genomics studies using microarray analysis and novel gene transfer approaches in mice (see *JBC* 274:13338, 1999; *JBC*, June 15 online, 2000). Requires Ph.D./M.D. and strong background in molecular biology and gene expression. Excellent salary and benefits. Send curriculum vitae and three letters of reference to: **Dr. Robert Debs, California Pacific Medical Research Institute, 2330 Clay Street, San Francisco, CA 94115. E-mail: debs@cooper.cpmc.org. Equal Opportunity Employer.**

POSTDOCTORAL POSITION IN CANCER RESEARCH

Johns Hopkins University School of Medicine

Positions available in a cancer biology laboratory for M.D. and/or Ph.D. in molecular biology or related discipline. Please send curriculum vitae and three references to: **Dr. Linda M. S. Resar, The Johns Hopkins University School of Medicine, Ross Research Building, Room 1125, Baltimore, MD 21205. Telephone: 410-955-6132; FAX: 410-955-8202; e-mail: lmsresar@welch.jhu.edu. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately to study transgenic mice and mouse cells lacking calpain. Applicants should have a Ph.D. with experience in protein biochemistry, molecular biology, and cell biology. Please send curriculum vitae and name of three references by mail or e-mail to: **Dr. John S. Elce, Department of Biochemistry, Queen's University, Kingston, Ontario K7L 3N6 Canada. E-mail: jse@post.queensu.ca. Queen's University is committed to the principles of Employment Equity. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents; however, all applications will be carefully reviewed.**

POSITIONS OPEN

POSTDOCTORAL FELLOW

A Postdoctoral position is available to study the carnitine palmitoyltransferase (CPT) system of enzymes. Our CPT research relates to the etiology and potential treatment of insulin resistance, Type II diabetes, ischemic heart disease, and obesity. Projects encompass study of the enzymes' function and regulation at a molecular level as well as the physiological role of CPT in regulating fatty acid metabolism in various tissues. Ph.D. and/or M.D. required.

Please send curriculum vitae, names and addresses of three references, and copies of recent publications to: **Dr. Nicholas Brown, Division of Endocrinology and Metabolism, University of Pittsburgh, E1140 BST, 200 Lothrop Street, Pittsburgh, PA 15261. The University of Pittsburgh is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION in cell biology at the University of California San Francisco is available to study regulation of integrin signaling *in vitro* and integrin function *in vivo*. The project is focused on the influence of urokinase receptors on integrin function in model systems relevant to inflammation and tumor metastasis. The project will use structural/functional studies of integrin and urokinase receptor interactions *in vitro* and transgenic/knockout approaches *in vivo* to understand the basis for the synergistic relationship between proteases and integrins in cell migration. Experience in molecular biology and mouse biology preferred. Send curriculum vitae to: **Harold A. Chapman, M.D., Cardiovascular Research Institute, University of California San Francisco. FAX: 415-476-2283; e-mail: halchap@itsa.ucsf.edu.**

POSTDOCTORAL POSITION available immediately to investigate the cocaine and substrate binding sites on the dopamine transporter using photoaffinity labeling and mass spectrometry. Applicants must have a Ph.D. and experience with protein chemistry and/or mass spectrometry of peptides and proteins. Send brief description of research experience and interests, curriculum vitae, and contact information for three references to: **Dr. Jay Justice, Department of Chemistry, Emory University, 1515 Pierce Drive, Atlanta, GA 30322. E-mail: jjustice@emory.edu. Emory University is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately for NIH-funded project studying the role of HIV-1 and HHV-8/KSHV in the pathogenesis of Kaposi's sarcoma. Candidates must have a Ph.D. and/or M.D. with experience in molecular biology and HIV strongly preferred. To join our committed group of Investigators, send or e-mail curriculum vitae and names of three references to: **Dr. K. E. Foreman, Cardinal Bernardin Cancer Center, Room 302, Loyola University Medical Center, 2160 South First Avenue, Maywood, IL 60153. E-mail: kforema@lumc.edu. An Equal Opportunity Employer/Educator.**

POSTDOCTORAL POSITIONS: to study transcriptional regulation of genes involved in lipid biosynthesis and adipocyte differentiation. Research areas include 1) molecular function and regulation of factors (including pref-1) that control adipocyte differentiation and 2) hormonal/nutritional regulation of lipogenic gene transcription. Send curriculum vitae and names of references to: **Dr. Hei Sook Sul, Department of Nutritional Sciences and Toxicology, 119 Morgan Hall, University of California, Berkeley, CA 94720-3104. FAX: 510-642-0535; e-mail: hsul@nature.berkeley.edu.**

MEDICAL COLLEGE OF WISCONSIN

POSTDOCTORAL POSITION available for study of coronary circulation, myocardial ischemia, and pharmacology of anesthetic drugs in NIH-funded program. Send curriculum vitae and three references to: **David C. Warltier, M.D., Ph.D., Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226. E-mail: cknapp@mcw.edu. The Medical College of Wisconsin is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS AVAILABLE

AMERICAN SOCIETY FOR MICROBIOLOGY AND NATIONAL CENTER FOR INFECTIOUS DISEASES

2001 POSTDOCTORAL RESEARCH PROGRAM

Up to ten associate positions will be awarded by the American Society for Microbiology for full-time research on infectious diseases which cause significant public health problems. Associates will perform research in residence at the National Center for Infectious Diseases (NCID) which is headquartered at the Centers for Disease Control and Prevention (CDC) in Atlanta, GA. In addition to Atlanta, NCID operates laboratories in Ft. Collins, CO, Anchorage, AK, and San Juan, Puerto Rico.

Eligible fields of study include:

Bacterial and Mycotic Diseases
Viral and Rickettsial Infections
Nosocomial Infections
HIV/AIDS
Vector-borne Infectious Diseases
Sexually Transmitted Diseases
Parasitic Diseases

The associate positions are limited to individuals who either earned their doctorate degree (Ph.D., Sc.D., M.D., D.V.M., or D.D.S.) or have completed a primary residency within three years of their proposed start date. The program provides an annual stipend of \$30,800, health care benefits package and up to \$4,000 for professional development.

The application deadline is November 15, 2000. For more information, visit ASM's home page at <http://www.asmtusa.org/edusrc/edu23e.htm> or e-mail: Fellowships-CareerInformation@asmtusa.org. The brochure and application are available on line.

ASM

American Society for Microbiology

CDC/NCID

Centers for Disease
Control and Prevention/ National Center
for Infectious Diseases

THE J. DAVID GLADSTONE INSTITUTES UNIVERSITY OF CALIFORNIA SAN FRANCISCO

RESEARCH OPPORTUNITIES

Director, Genomics Core Laboratory. The Genomics Core laboratory is currently making custom arrays, using DNA arrays from Affymetrix, and developing new bioinformatics tools. Responsibilities include managing the laboratory; designing, planning, and executing research projects and analyzing results; publishing and presenting data; and providing scientific support and training. Candidate should possess a Ph.D. (or equivalent) and 2-5 years of genomic experience. Job #C00-22S

Postdoctoral Fellowship in the laboratory of Dr. Israel Charo to study the role of Chemokines and Chemokine/Receptors in human disease and the regulation of the immune response. Projects feature extensive use of both transgenic and knockout mice. Background in immunology is preferred. Job #C00-29S

Postdoctoral Fellowship in the laboratory of Dr. Robert Farese Jr. to study ACAT enzymes and their relationship to atherosclerosis. Experience in molecular biology and lipid metabolism required. Job #C00-28S

Postdoctoral Fellowship in the laboratory of Dr. Fen-Bia Gao to explore the molecular mechanisms underlying dendritic morphogenesis and its involvement in neurological diseases. Fruitfly *Drosophila* is used as the primary model system. Candidates should have a strong background in molecular, cellular or developmental biology. Job #N00-14S

Postdoctoral Fellowship in the laboratory of Dr. Yadong Huang to study the effects of apolipoprotein E isoforms on lipid metabolism in the plasma, liver, and brain of transgenic or gene-targeted mouse models. A strong background in molecular biology and lipid metabolism is required. Job #C99-070S

Postdoctoral Fellowship in the laboratory of Dr. Mike McCune to study HIV pathogenesis, with particular emphasis on effects on the hematolymphoid system. Candidates should have a background in hematology or immunology, preferably with experience in flow cytometry, cell culture, and assays of hematopoietic function. Job #V00-09S

Postdoctoral Fellowship in the laboratory of Dr. Tony Wyss-Coray to study neurodegeneration and neuroprotection related to Alzheimer's disease and stroke. Project will involve the use of mice with regulatable transgenes to study molecular mechanisms of disease and TGF- β 1 signaling in vivo. Experience with molecular biology and neuroscience is required. Job #N00-09S

Postdoctoral Fellowship in the laboratory of Dr. Stephen Young to investigate the molecular genetics of lipid metabolism and atherogenesis. Experience with molecular genetics and/or lipid metabolism and/or genetically modified mice are required. Job #C00-29S

All positions require a Ph.D., M.D., or both. Please mail cover letter indicating job number along with CV and three references to:

The J. David Gladstone Institutes
John LeVathan - Human Resources
P.O. Box 419100
San Francisco, CA 94141
email: hr@gladstone.ucsf.edu
web: <http://gladstone.ucsf.edu>

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POSITIONS OPEN

POSTDOCTORAL POSITION AVAILABLE IN G PROTEIN SIGNALING

Several projects are in progress studying the molecular mechanisms of signaling by heterotrimeric GTP binding proteins. These include studies of the structural basis for protein-protein interactions and characterization of G protein signaling pathways. Applicants should have an interest in both protein biochemistry and cell biology. Please send curriculum vitae and names of references to: **Dr. Alan Smrcka, Department of Pharmacology and Physiology, University of Rochester School of Medicine, 601 Elmwood Avenue, Rochester, NY 14642. E-mail: Alan_Smrcka@urmc.rochester.edu; website: www.urmc.rochester.edu/gebs/faculty/alan_smrcka.htm.** The University of Rochester is an Equal Opportunity/Affirmative Action Employer.

Three POSTDOCTORAL POSITIONS are available in *de novo* protein design (synthetic membrane proteins and synthetic protein catalysts) and in proteomics (development of microsequencing methodologies). Candidates should have a strong background in protein chemistry and the physical-chemical characterization of proteins; computer modeling, peptide synthesis, and mass spectrometry would be important assets. Further details available at <http://www.chem.rpi.edu/chemweb/new/faculty/people/choma/Choma.html>. Send cover letter, curriculum vitae, and the names of three references to: **Christin Choma, Department of Chemistry, Rensselaer Polytechnic Institute, 110th Street, Troy, NY 12180. E-mail: chomac@rpi.edu; FAX: 518-276-4887.**

POSTDOCTORAL POSITION

University of California and Veterans Affairs Medical Center, in conjunction with Northern California Institute for Research and Education (NCIRE), San Francisco, has a position available immediately for a qualified individual to join a group studying the molecular mechanisms by which calcium and vitamin D regulate keratinocyte differentiation. The successful applicant will have a Ph.D. or equivalent in molecular and/or cellular biology. Send curriculum vitae and three references to: **Daniel Bikle, M.D., Ph.D., Department of Medicine, VAMC (111N), 4150 Clement Street, San Francisco, CA 94121.**

Several POSTDOCTORAL POSITIONS in functional genomics are available immediately. Particular emphasis will be given to the large-scale analysis of signaling networks, gene functional profiling, and peptide aptamers. Candidates should have a Ph.D. in molecular biology, biochemistry, or genetics. The laboratory has state-of-the-art instruments including a microarrayer. Send research interests, curriculum vitae, and three references to: **C. Wilson Xu, Ph.D., Sloan-Kettering Institute and Graduate School of Medical Sciences of Cornell University, 1275 York Avenue, New York, NY 10021. FAX: 212-794-4342; e-mail: w-xu@ski.mskcc.org.**

POSTDOCTORAL FELLOW NEUROCHEMISTRY, NEUROSCIENCE

A Postdoctoral position is available to study neurotransmitters (glutamate and catecholamine) involved in mechanisms of pain and analgesia in the central nervous system. Experience in neurochemical (HPLC) assay and electrophysiological studies is preferred. Send curriculum vitae and the names of three references to: **Dr. Hui-Lin Pan, Penn State University College of Medicine, The Milton S. Hershey Medical Center, Department of Anesthesiology, P.O. Box 850, H187, Hershey, PA 17033.**

POSTDOCTORAL POSITIONS: To study the transcriptional regulation and function of genes involved in adipocyte differentiation and cancer. Send curriculum vitae and names of references to: **Dr. Cynthia Smas, Department of Biochemistry and Molecular Biology, Medical College of Ohio, 3000 Arlington Avenue, Toledo, OH 43614. Telephone: 419-383-4100; e-mail: cthomas@mco.edu.**

POSITIONS OPEN

RESEARCH ASSISTANT PROFESSOR and POSTDOCTORAL RESEARCH ASSOCIATE positions available to work on the development of innovative new methods to study signaling networks and the regulation of cell proliferation by novel genes. Applicants for the Research Assistant Professor position must have M.D. or Ph.D. degree, potential for independent funding, and at least five years of postdoctoral training in the areas of molecular biology and protein production/characterization. Postdoctoral positions are available to highly motivated individuals with strong experience in molecular biology. Competitive salaries based on areas of expertise, research experience, and publication record. For fullest consideration, send by October 5, 2000, statement of research interest and experience, curriculum vitae, and names of three references to: **Dr. Oscar R. Colamonic (OC001), Department of Pharmacology, University of Illinois, 835 South Wolcott Avenue, Room E403 (M/C868), Chicago, IL 60612. E-mail: ocolamon@uic.edu.** The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP

Chronic hepatitis C genomic studies and RNA replication. Application of genomics in studying chronic hepatitis C and studies of HCV RNA replication (see *Current Topics of Microbiology and Immunology* 242). Join an interdisciplinary group with links to the Yerkes microarray facility and the Emory molecular pathology section. Salary and benefits competitive. Send curriculum vitae and references to: **Dr. Curt H. Hagedorn, Division of Digestive Diseases, 2101 Woodruff Memorial Research Building, Emory University School of Medicine, Atlanta, GA 30322. E-mail: chagedo@bimcore.emory.edu; FAX: 404-727-5767.** Emory University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP immediately available for studies on skeletal muscle development. The focus is on early expression of genes associated with establishing myogenesis, the signaling molecules involved, and the commitment of mesodermal cells to a myogenic fate and patterning. Position open to United States citizens or permanent residents. Send curriculum vitae and letters of reference to:

**Frank E. Stockdale, M.D., Ph.D.
Stanford University School of Medicine
CCSR Building, Room 115
269 Campus Drive
Stanford, CA 94305-5151**

Two POSTDOCTORAL POSITIONS are available immediately to study mechanisms of neurodegeneration and neuroprotection relevant to Alzheimer's disease. Current areas of interest include *in vitro* and *in vivo* modulation of neuronal apoptosis by steroid hormones. Candidates with a background in molecular or cellular neuroscience should send curriculum vitae and the names and addresses of three references to: **Dr. Christian J. Pike, Andrus Gerontology Center, University of Southern California, 3715 McClintock Avenue, Los Angeles, CA 90089-0191. E-mail: cjpik@usc.edu.** Affirmative Action/Equal Opportunity Employer.

MICROBIAL MOLECULAR GENETICS

POSTDOCTORAL POSITION for development of new antibiotic mechanisms based on bactericidal genes of *B. subtilis* bacteriophage SPO1. Analysis of mechanisms by which these genes remodel the host cell to optimize it for phage reproduction. Please send curriculum vitae, summary of research experience, and three references to: **Dr. Charles Stewart, Department of Biochemistry and Cell Biology, Rice University, P.O. Box 1892, Houston, TX 77251. E-mail: crs@bioc.rice.edu.** Equal Opportunity Employer.

POSTDOCTORAL POSITION available for recent Ph.D. to study lipid trafficking in Niemann-Pick disease Type C. Strong background in cell and/or molecular biology is essential. Send curriculum vitae and names of three references to: **L. Liscum, Department of Physiology, Tufts University School of Medicine, Boston, MA 02111. Website: www.healthsci.tufts.edu/labs/LLiscum/.**

POSITIONS OPEN

POSTDOCTORAL POSITION Harvard Medical School

Position available to study the molecular basis of neuronal degeneration in Alzheimer's and other neurodegenerative diseases. Projects focus on molecular mechanisms of neuronal apoptosis and the role of genes that predispose to neuronal cell death. For reference, see *PNAS* 96:6959, 1999; *Nature* 395:698, 1998; *Neuron* 16:921, 1996. Experience in molecular and cell biology is required. Send curriculum vitae, a brief description of research experience, and names of three references to: **Dr. Bruce Yankner, Children's Hospital, Enders 260, 300 Longwood Avenue, Boston, MA 02115. FAX: 617-738-1542.** An Equal Opportunity Employer.

POSTDOCTORAL/ASSOCIATE RESEARCH POSITION available in vascular biology involving actin-signaling pathways in macrophages using both cell culture and macrophage-specific knockout mouse models (Cre-lox system). Experience in cytoskeletal biology, signal transduction, and advanced molecular biology desirable. Send curriculum vitae and three references to: **Dr. Ira Tabas, Division of Molecular Medicine, Columbia University, 630 West 168th Street, New York, NY 10032. E-mail: iat@columbia.edu.** We are an Affirmative Action/Equal Opportunity Employer.

Eye research: retinal transplantation. **POSTDOCTORAL POSITION** available to study behavioral effects of retinal transplants. Desirable experience: rats, visually guided behavior. Electrophysiology, histology, tracing, and/or immunohistochemistry would be an asset. Send curriculum vitae and three references to: **Dr. Robert B. Aramant, Department of Ophthalmology and Visual Sciences, University of Louisville School of Medicine, 301 East Muhammad Ali Boulevard, Louisville, KY 40202. Telephone: 502-852-4882; FAX: 502-852-0128; e-mail: robert.aramant@louisville.edu.**

POSTDOCTORAL POSITIONS are available to investigate the molecular biology and genetics of brain tumors, including the development of preclinical mouse models and studies aimed at determining the mechanism of action of relevant brain tumor suppressor genes. Qualifications include M.D. or Ph.D. in genetics, molecular biology, or cell biology. Please send curriculum vitae and two reference letters to: **David H. Gutmann, M.D./Ph.D., Department of Neurology, Washington University, Box 8111, 660 South Euclid Avenue, St. Louis, MO 63110. E-mail: gutmann@neuro.wustl.edu.**

POSTDOCTORAL POSITION available to study molecular and cellular mechanisms involved in the regulation of V(D)J recombination and commitment to lymphocyte lineages. Candidates with experience in molecular biology or cellular immunology/hematology are encouraged to apply. Submit curriculum vitae and references to: **Dr. Rachel Gerstein, Department of Molecular Genetics, Microbiology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655. FAX: 508-856-5920; e-mail: Rachel.Gerstein@umassmed.edu.**

A **POSTDOCTORAL POSITION** is immediately available to study human skeletal dysplasias and growth. Candidates should have a Ph.D. or M.D. and a background in receptor tyrosine kinase signal transduction, gene expression, and cell biology research. For consideration, please send a curriculum vitae with the names of three references to: **William R. Wilcox, M.D., Ph.D., Medical Genetics, Cedars-Sinai Medical Center, 8700 Beverly Boulevard, SSB-3, Los Angeles, CA 90048. FAX: 310-423-0237; e-mail: william.wilcox@cshs.org.**

Two **POSTDOCTORAL POSITIONS** to work on the RNA-protein interactions involved in RNA virus transcriptional regulation are available. Please contact: **Dr. Ramaswamy Raju, Microbiology, Meharry Medical College, Nashville, TN 37208. Telephone: 615-327-6687; FAX: 615-327-6602; e-mail: RRamasamy@mail.mmc.edu.**

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Roche Bioscience is committed to innovation in human pharmaceutical research. Our Palo Alto-based research units are focused on innovative breakthroughs in small molecule drug discovery. We intend to lead the industry through research excellence, sound business decisions and cost-effective, timely delivery of novel drugs. The opportunities have never been greater as we build on our tradition to make the world better.

Research Scientist—Protein Expression

You will express recombinant proteins, evaluate novel expression systems and molecular biological techniques, and construct vectors for expression of proteins in a variety of systems, including bacteria, insect, mammalian, and yeast cells. Requires a PhD in Molecular Biology or equivalent and 1-3 years experience. Job Code: 0900SC-PE

POSTDOCTORAL OPPORTUNITIES

Neurophysiology

You will study and elucidate the role of cytokines and neuroinflammation in the etiology of anxiety and depression by conducting experiments to correlate indicators of CNS inflammation to behavioral or biochemical outcomes. Requires a PhD or equivalent with *in vivo* Neuropharmacology, Immunology, or Systems Neuroscience experience. Job Code: 0900SC-NP

Cell Migration

You will lead and complete basic research projects and target assessment in the field of glycosyltransferases to provide *in vitro* characterization and validation of novel therapeutic targets and develop innovative approaches to assess the function of novel genes. Requires a PhD in Biochemistry, Cell or Molecular Biology and strong publication record. Job Code: 0900SC-CM

Target Evaluation

You will coordinate and lead research projects to provide *in vitro* characterization and validation of novel therapeutic targets. You will develop cell culture systems and implement RNA expression assays. Requires a PhD in Biochemistry, Cell or Molecular Biology, a strong publication record and experience with qRT-PCR/Taqman assays. Job Code: 0900SC-TE

We give our people the freedom to take initiative and be accountable for their actions. We also reward results by offering competitive salaries, incentive compensation and a full benefits package, which includes relocation assistance, 401(k) and pension plan. Apply today by sending your resume, indicating Job Code 0900GF-SC, to us at Roche Bioscience, 3401 Hillview Avenue, A2-HR, Palo Alto, CA 94304. Fax to (650) 424-8159 or email geri.filippini@roche.com.

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State University of New York Health Science Center, Brooklyn Postdoctoral Positions

Multiple positions are available immediately in the Department of Physiology and Pharmacology to work in the areas of enteric and pancreatic physiology, glutamate receptors and ion channels, GABA receptors and neural plasticity, and immunoglobulin gene expression. New faculty within the department are building programs in cellular and molecular neuroscience and immunology. Inquiries should be sent to the following faculty:

Dr. Ellen Hsu. To study immunoglobulin gene expression in the nurse shark, with respect to allelic exclusion, somatic hypermutation, and gene rearrangement (*J. Exp. Med.* 191:1637-1647, 2000). A strong background in immunology is required. Send CV and names of references to: FAX (718) 270-3103 or email hsue@hscbklyn.edu.

Dr. Annette Kirchessner. To study the role of orexin and other feeding related peptides in the gut and pancreas (*Neuron* 24:941-951, 1999), and modulation of enteric and pancreatic physiology by glutamate (*J. Neurosci.* 20:3200-3205, 2000). Experience in intracellular/whole cell patch recording and/or molecular biology is required. Send CV and three references to: FAX (718) 270-4661 or email akirchessner@netmail.hscbklyn.edu.

Dr. Sheryl Smith. To study the kinetics of native and recombinant GABA-A receptors and related synaptic physiology under conditions of receptor subunit plasticity. One position requires expertise in cellular electrophysiology; a second position requires expertise in molecular biology. Send CV and names of references to: FAX (718) 270-3103 or email sheryl_smith@netmail.hscbklyn.edu.

Dr. Keith Williams. To study aspects of the structure, function and pharmacology of glutamate receptors and related ion channels (*Mol. Pharmacol.* 55:957-969, 1999). Expertise in patch-clamp recording is required, and experience with fast perfusion techniques, molecular biology, and heterologous expression systems is useful. Send a brief letter, CV, and names of references to: FAX (718) 270-1344 or email keithwnyc@mindspring.com

Department of Physiology and Pharmacology
SUNY Health Science Center at Brooklyn
450 Clarkson Ave., Box 31
Brooklyn, NY 11203

Postdoctoral Research Fellowships in Proteomics and Development Biology

National Institutes of Health Bethesda, MD

Several postdoctoral positions to join a multidisciplinary group studying craniofacial development using mouse models that have been genetically modified to alter cell-surface glycoproteins. Position 1: expertise in eukaryotic molecular biology (e.g. molecular cloning; targeting vector design and construction; yeast-two-hybrid) and/or mouse developmental genetics. Position 2: experience in protein identification using mass spectrometry and/or the use of combinatorial chemistry (e.g. phage display, peptide libraries) to characterize enzyme function. Position 3: glycobiologist with experience in structural determination and/or glycosyltransferase characterization. Applicants should have completed a Ph.D., D.D.S./DMD, M.D. (or equivalent). Positions will be available in Spring, 2001.

Please send curriculum vitae and names of three references by October 31, 2000 to:

Dr. Lawrence A. Tabak
National Institutes of Health
31 Center Drive, MSC 2290
Bldg. 31, Room 2C39
Bethesda, MD 20892-2290
E-mail: tabakl@mail.nih.gov

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POSTDOCTORAL OPPORTUNITIES

POSITIONS OPEN

CARDIOVASCULAR RESEARCH FOR GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS University of Virginia

The University of Virginia offers a multidisciplinary training program in basic cardiovascular research. Our special strengths are in the broad area of vascular biology. Thirty-one faculty members are mentoring both graduate students and Postdoctoral Fellows. Our particular strengths are in the areas of vascular development, structural biology, cell signaling, vascular cell adhesion, and microvascular function. Laboratory investigations are underway in cell-cell communications in microvessels, cardiac and smooth muscle cell signal transduction, angiogenesis, and leukocyte-endothelial cell interactions. Positions are well supported and include stipend, health insurance, and travel to scientific meetings. A special accelerated program also exists for M.D.s wishing to pursue the Ph.D. Details of the interests of faculty, a description of the program, and application forms may be found on our website: <http://www.med.virginia.edu/medicine/inter-dis/cvrc/>. For further information, e-mail: cincon@virginia.edu. Competitive applicants also may apply directly to: Dr. Brian R. Duling, Department of Molecular Physiology and Biological Physics, P.O. Box 800736, University of Virginia Health System, Charlottesville, VA 22908-0736.

The University of Virginia is an Equal Opportunity Employer. These positions are restricted to permanent residents or citizens of the United States.

POSTDOCTORAL POSITIONS are available for biochemical and NMR studies of viral envelope proteins (*EMBO* 17:4572-4584, 1998; *J. Biol. Chem.* 275:19877-19882, 2000). Current projects include proteins from the human immunodeficiency virus (HIV), hepatitis C virus (HCV), and Coxsackie B virus (CBV). The ideal candidate should have a strong background in NMR spectroscopy and/or biochemistry. For fullest consideration, please send curriculum vitae and the names of three references to: Dr. Michael Caffrey, Department of Biochemistry and Molecular Biology, University of Illinois at Chicago, 1819 West Polk Street, M/C 536, Chicago, IL 60612. FAX: 312-413-0364; e-mail: caffrey@uic.edu. University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION to study the structure/function of a novel protein that bridges the endonuclease and topoisomerase/recombinase protein families (*Science* 267:1817; *EMBO J.* 19:3110). Background in biochemistry/molecular biology and familiarity with site-directed mutagenesis and protein purification preferred. Please send curriculum vitae and three references to: Dr. Michael D. Topal, Lineberger Comprehensive Cancer Center, University of North Carolina Medical School, Chapel Hill, NC 27599-7295. E-mail: mdtopal@med.unc.edu. University of North Carolina is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP in immunology is available to study the role of endosomal proteases in MHC Class II-restricted antigen presentation. The Fellowship will focus on the use of gene-targeted mice deficient in specific proteases to explore the role of cysteine proteases in MHC Class II processing and antigen presentation *in vitro* and *in vivo*. Experience in molecular genetics and immunology preferred. Send curriculum vitae to: Harold A. Chapman, M.D., Cardiovascular Research Institute, University of California San Francisco. FAX: 415-476-2283; e-mail: hachap@itsa.ucsf.edu.

POSTDOCTORAL POSITION available to study gene expression in childhood inflammatory diseases using microarray technology. Candidate will participate in a highly interactive group with members studying a variety of human diseases. Experience in molecular biology required, and background in immunology preferred. Please e-mail curriculum vitae and names of three references to: Dr. E. Mellins; e-mail: mellins@stanford.edu.

POSITIONS OPEN

POSTDOCTORAL POSITION DEVELOPMENTAL NEUROBIOLOGY

A position is available to study cell-fate determination and patterning in the visual system of *Drosophila*. Current projects include the characterization of recently identified mutations that disrupt photoreceptor cell patterning as well as new genetic screens to identify and characterize novel genes using genetic and genomic tools. The experimental system is described in *Neuron* 17:1101-1115, 1996; and *Development* 126:607-616, 1999. Please submit curriculum vitae, reprints, a description of your current work and your interest in retinal patterning, and names of at least three references to: Dr. Steven G. Britt, Department of Cellular and Structural Biology, Department of Ophthalmology, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, B-111, Denver, CO 80262. Telephone: 303-315-0880; FAX: 303-315-4729; e-mail: steve.britt@uchsc.edu. The University of Colorado Health Sciences Center is committed to Equal Opportunity and Affirmative Action.

POSTDOCTORAL/RESEARCH ASSISTANT POSITIONS

Two Postdoctoral/Research Assistant positions are immediately available to work on NIH-funded projects involving transcriptional regulation in mammalian embryonic development and cancer. For examples of research projects, see *Nature Medicine* 6:826-831, 2000; *Nucl. Acids Res.* in press, September 1, 2000; *J. Biol. Chem.* 274:8002-8011, 1999; *EMBO J.* 16:1721-1731, 1997. Excellent experience in molecular biology, chromatin structure, construction and analysis of transgenic mice, or microinjection of mouse embryos is required. Please send curriculum vitae and names and addresses of three references to: Sadhan Majumder, University of Texas MD Anderson Cancer Center, 1515 Holcombe Boulevard, Box 316, Houston, TX 77030. Telephone: 713-792-8920; FAX: 713-792-6054; e-mail: MAJUMDER@MDANDERSON.ORG. Equal Opportunity Employer/smoke-free environment.

NIH-supported **POSTDOCTORAL POSITIONS** are available to study the molecular mechanisms of tissue injury following ischemia and reperfusion with emphasis on the complement system and generation of novel complement inhibitors. Successful candidate must be a U.S. citizen or permanent resident, have a Ph.D., and have published experience in physiology, pharmacology, biochemistry, and/or molecular biology. Curriculum vitae should be sent to: Gregory L. Stahl, Ph.D., Center for Experimental Therapeutics and Reperfusion Injury, Anesthesia, Brigham and Women's Hospital, Harvard Medical School, 75 Francis Street, Boston, MA 02115. FAX: 617-730-2819.

POSTDOCTORAL POSITIONS at the Cleveland Clinic's Lerner Research Institute to probe the molecular mechanisms of interferon's antitumor and antiviral activities (see *EMBO J.* 16:6355, 1997; *Proc. Natl. Acad. Sci.* 95:15623, 1998; *Virology* 258:435, 1999). A Ph.D. or M.D. and molecular biology experience is required. Send curriculum vitae and names of references to: Dr. Robert Silverman, Department of Cancer Biology, NB40, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. E-mail: silverrr@ccf.org; website: www.lerner.ccf.org/pi/silverrr.html; FAX: 216-445-6269.

POSTDOCTORAL POSITION available to study molecular mechanisms regulating angiogenesis. Experience in signal transduction and molecular biology required. Experience in *in vitro* and *in vivo* transfection preferred. Send curriculum vitae to: Dr. J. A. Varner, University of California San Diego Cancer Center, 9500 Gilman Drive, La Jolla, CA 92093-0912. E-mail: jvarner@ucsd.edu.

POSITIONS OPEN

TWO POSTDOCTORAL POSITIONS NEUROBIOLOGY/DEVELOPMENTAL BIOLOGY/NEUROENDOCRINOLOGY

Positions available for Intramural Training Awards (Ph.D., M.D., or equivalent). Positions will focus on mechanisms directing (1) cell-specific neuropeptide gene expression, (2) neuronal migration, (3) axonal pathfinding, (4) neuronal secretion, and/or (5) neuronal activity. Projects include isolation of molecules involved in differentiation of cells from the nasal placode, characterization of genes expressed in LHRH neuroendocrine cells prior to (versus after) entrance into the CNS, identification of molecules involved in migration of LHRH neurons from nasal placode into CNS, targeting of axons to the median eminence, and identification of intrinsic properties of LHRH cells resulting in pulsatile secretion. Multidisciplinary approaches are employed, ranging from cellular to molecular biological methods including nasal explants, immunocytochemistry, *in situ* histochemistry, single-cell PCR, subtractive cDNA screening, and calcium imaging. Applicants should have training in neurobiology, developmental biology, molecular biology, or related field. Salary is commensurate with experience. Send curriculum vitae and names of references to:

Dr. Susan Wray
Cellular and Developmental Neurobiology Section
NINDS, NIH
Building 36/Room 5A-25
Bethesda, MD 20892-4156
E-mail: swray@codon.nih.gov
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POSTDOCTORAL POSITION. NIH-funded Postdoctoral position available December 1, 2000, to study the regulation of human cystathionine beta synthase and homocysteine-related disease. This position follows on work stemming from *Nature Genetics* 19: 91-93, 1998. Experience in yeast molecular genetics, mouse genetics, enzymology, and protein biochemistry would be useful. This position is at the Fox Chase Cancer Center, located in a suburban section of Philadelphia. Acceptance for this position will require an interview in Philadelphia; therefore overseas individuals should only apply if they plan on being in the United States in the near future. Travel funds are available for qualified individuals traveling within the United States. If interested, please send curriculum vitae and names of three references to: Dr. Warren Kruger, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. E-mail: wd_kruger@fccc.edu. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available in molecular cardiology at University of California San Francisco. Current projects include array analysis of gene expression, cloning novel transcription factors, signal-dependent cell cycle regulation, and approaches to myocardial regeneration. See website: <http://bernstein.ucsf.edu> for details. Requirements include U.S. citizenship/permanent resident status, Ph.D. and/or M.D., and strong background in molecular/cellular biology. Send curriculum vitae, research summary, and three references to: H. S. Bernstein, M.D., Ph.D., University of California, 505 Parnassus Avenue, Box 0130, San Francisco, CA 94143. FAX: 415-514-0235; e-mail: hsbernstein@pedcard.ucsf.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available to identify and functionally analyze evolutionarily conserved human DNA sequences (*Science* 288:136-140, 2000) using Affymetrix DNA microarrays in the laboratory of Kelly A. Frazer. Experience with molecular genetics desired. You will enjoy a competitive salary and benefits package. Please send curriculum vitae and three references to: Affymetrix, Human Resources, Job Code: SCI-KF030, 3380 Central Expressway, Santa Clara, CA 95051. FAX: 408-481-0422; e-mail: HR@affymetrix.com; website: www.affymetrix.com. We are an Equal Opportunity Employer.

OLFACTORY NEUROBIOLOGY RESEARCH-TRACK AND POSTDOCTORAL POSITIONS, AVAILABLE IMMEDIATELY

A-Integrative and/or Cellular Neurophysiologists to study intrinsic properties, synaptic integration and sensory processing in mammalian olfactory bulb and piriform cortex. Experience in optical imaging of voltage-sensitive dyes and/or patch clamping in slices required.

B-Cellular/Molecular Biologist to study olfactory bulb mitral cell dendrite formation. Emphasis will be on the role of BMPs in perinatal mice when major changes in dendrite reorganization and resculpting occur, and following perturbations in adults. Approaches will include characterization of expression, secretion and function of BMPs by manipulation of levels using exogenous sources, and genetic manipulations.

C-Cellular/Molecular Biologist to study transduction mechanisms in newly identified, specialized olfactory sensory neurons. The successful applicant will use gene targeting, molecular biological and biochemical techniques to investigate the function of receptors, enzymes and ion channels in the transduction of behaviorally important stimuli. Experience with molecular or sensory neurobiology preferred.

Ph.D. or M.D. required. Competitive salary/fringe benefits. Opportunity to interact with neuroscientists in the department (<http://neurobiology.umaryland.edu/>) and the Neuroscience Program (<http://neuroscience.umaryland.edu/>). Send CV and 3 references to:

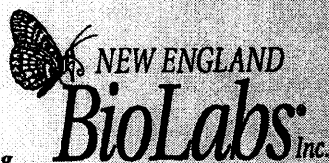
Dr. M. Ennis/M.Shipley (mennis@umaryland.edu) for A
Dr. F. Margolis (fmargoli@umaryland.edu) for B
Dr. S. Munger (smung001@umaryland.edu) for C

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position available.*



Postdoctoral Fellow

Position available for a recent Ph.D. to study aspects of cell wall assembly in yeast and filamentous fungi. Candidates should be energetic, self-motivated, and have a strong background in molecular biology and eukaryotic genetics. Experience with the genetic manipulation of fungi including the yeasts *Saccharomyces cerevisiae* and *Candida albicans* is highly desired.

Send a resume and three references to:
Dr. Chris Taron.

New England Biolabs, Inc.
32 Tozer Road
Beverly, MA 01915

An Equal Opportunity Employer

**LOVELACE RESPIRATORY
RESEARCH INSTITUTE**

...Giving the Gift of Breath

**POSTDOCTORAL FELLOWSHIP
POSITIONS AVAILABLE**

Lovelace Respiratory Research Institute is committed to the cure of respiratory diseases through research aimed at understanding their causes and biological mechanisms, eliminating exposures to causal agents, and developing improved treatments. Based on its diverse research capabilities, its close working relationships with universities and national laboratories, and its endowed and sponsored research programs, LRRI is one of the nation's largest independent, non-profit biomedical research organizations, and the nation's only such organization wholly dedicated to basic research on respiratory health problems.

Position (E2399) with **Dr. Y. Tesfagzi** is available to study regulation of expression and the role of apoptotic regulators in mucous cells of chronic bronchitis and asthmatics. The laboratory applies molecular, immunological, and immunocytochemical methods in rats and transgenic mouse models. Background in immunology, apoptotic signaling, and/or antisense technology is desirable.

Position (E0900) with **Dr. Satya Saxena** is available to study mechanisms of drug-induced apoptosis in non-small cell lung cancer.

Position (E4900) with **Dr. Steve Belinsky** is available to study the role of gene specific aberrant promoter hypermethylation in lung cancer. Studies use animal and human tumors as well as preneoplastic lesions to characterize methylation, and biological fluids to assess biomarker potential of the targeted genes. In addition, studies will be conducted to define the mechanisms underlying targeting of specific genes for methylation. A Ph.D. in Molecular Biology or a related field is required.

Position (E5000) with **Dr. Scott Burchiel** is available to study the role of environmental polycyclic aromatic hydrocarbons (PAHs) in immunotoxicity and environmental asthma. This lab utilizes flow cytometry, gene chip, and signaling assays to study the role of PAH metabolites in oxidative stress and electrophilic signaling. Molecular, biochemical, and immunologic approaches to identifying target molecules and gene expression pathways in human in vitro models and rodents will be utilized in these studies.

Position (E2400) We always welcome applications for postdoctoral fellowships in all areas of respiratory research. If we do not have a current opening, we will keep all curriculum vitae on file for one year. We encourage you to visit our Web site: www.LRRI.org for additional information.

Postdoctoral participants receive a competitive stipend, health insurance, and a relocation allowance. Postdoctoral participants are encouraged to write grants and become members of the scientific staff. Candidates should send a cover letter referring the corresponding job number and a CV to **Human Resources, P.O. Box 5890, Albuquerque, New Mexico 87185**, or fax to 505/845-1035; or e-mail to www.hrmail@lrri.org. An Equal Opportunity/Affirmative Action Employer M/F.



Respiratory Research Institute

POSITIONS OPEN

POSTDOCTORAL AND RESEARCH SPECIALIST POSITIONS AVAILABLE

Two positions are currently available to study the mechanisms of amyloid accumulation and pathogenesis in Alzheimer's disease and the structure and assembly of amyloid fibrils. One position is for a Cell Biologist with a background in protein trafficking and processing. Expertise in cell culture, immunoprecipitation, and subcellular fractionation is preferred. A background in biochemistry with experience in protein analysis is desired for the second position. These Research Specialist positions require three or more years of postdoctoral experience. Qualified applicants should send curriculum vitae and the names of three references to:

Dr. Charles Glabe
Department of Molecular Biology and Biochemistry
University of California, Irvine
Irvine, CA 92697-3900

Applications close July 30, 2000. Minimum starting salary is \$29,700 per annum.

The University of California is an Equal Opportunity Employer committed to excellence through diversity.

POSTDOCTORAL POSITIONS available in the Molecular Neurogenetics Unit, Massachusetts General Hospital, Harvard Medical School to pursue molecular genetic investigation of human neurologic disorders in the laboratories of **James Gusella, Marcy MacDonald, Vijaya Ramesh, and Susan Slaugenhaupt**. A wide variety of projects are available including genetic analysis of behavioral and neurologic disorders by linkage and association studies; discovery of developmental genes implicated by balanced chromosomal aberrations; establishment of *Drosophila* models by genetic manipulation of human disease gene homologues; investigation of the merlin tumor suppressor in schwannoma and meningioma; and biochemical, cell biological, and mouse modeling analysis of neurologic disorders, including Huntington's disease, Batten's disease, neurofibromatosis, tuberous sclerosis, mucopolidosis IV, and familial dysautonomia. Send curriculum vitae, statement of research interests, and three letters of reference to: **Dr. James Gusella, Ph.D., Molecular Neurogenetics Unit, Massachusetts General Hospital, 13th Street, Charlestown, MA 02129 U.S.A. E-mail: gusella@helix.mgh.harvard.edu.**

University of California San Francisco and Northern California Institute for Research and Education (NCIRE) **POSTDOCTORAL POSITIONS** available immediately in two areas: (1) molecular mechanisms of endocytosis and trafficking of the G protein-coupled receptor for parathyroid hormone (PTH) and PTH-related protein and (2) development and use of transgenic models to study the relationship between PTH/PTHrP receptor signaling and *in vivo* responses. Applicants must be facile with standard molecular and cellular techniques, and preference will be given to candidates with experience in studies of signal transduction and/or transgenic mouse development. Successful candidates may have the opportunity to develop independent research programs. Please forward curriculum vitae and the names of at least two references to: **Robert Nissenson, Ph.D. E-mail: chicagof@itsa.ucsf.edu.**

Molecular biology and genetics **POSTDOCTORAL/RESEARCH ASSOCIATE**: Several positions are available as part of an interdisciplinary research team using advance technologies to determine how chromatin structure mediates development. Self-motivated individuals trained in molecular biology, genetics, and/or biochemistry are encouraged to apply. Applicants should forward their curriculum vitae and three letters of recommendation to: **Dr. Stephen Krawetz, Department of Obstetrics/Gynecology and CMMG, Wayne State University School of Medicine, 275 East Hancock, Detroit, MI 48201.**

Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at Wayne State University are smoke free. Wayne State University: people working together to provide quality service.

POSITIONS OPEN



OKLAHOMA
MEDICAL
RESEARCH
FOUNDATION

POSTDOCTORAL POSITIONS OKLAHOMA MEDICAL RESEARCH FOUNDATION

Developmental Biology Program

Mouse Genetics: Two Postdoctoral positions are available using/generating gene-modified mice (1) to study the developmental commitment of neural and supporting cell lineages in the eye, particularly the retinal pigment epithelium, using genetic, molecular biological and novel site-specific gene targeting strategies; and (2) to begin a systematic functional approach to the analysis of gene function in neural development and neuropathology. Preferred background includes expertise in molecular biology, ES cells/transgenic mice, and neural development.

Nucleic Acid Enzymology/Genetics: Postdoctoral appointment available to study genetic determinants of the DNA specificity of the site-specific Cre DNA recombinase using both genetic and biochemical methods (including surface plasmon resonance). A strong background in nucleic acid/protein biochemistry or related area is required. Familiarity with bacterial genetics is a plus.

Send curriculum vitae with names of three references to: **Brian Sauer, Ph.D.; e-mail: sauerb@omrf.ouhsc.edu.**

Equal Opportunity Employer/Affirmative Action Employer.

POSTDOCTORAL POSITION in the Surgical Molecular Oncology Division at the Hollings Cancer Center, Medical University of South Carolina (MUSC), to develop one of two projects. The Oncology Division is composed of medical doctors and Ph.D. scientists and dedicated to the advancement of scientific findings to the clinic. The first project involves application of real-time RT-PCR technology for the diagnosis of metastatic disease in breast or lung cancer patients. The applicant should have a Ph.D. in molecular biology or related field and will be responsible for determining expression levels of cancer-associated genes in various tissue compartments. Results and/or protocols will be used in a multi-institute clinical trial centered at MUSC and funded (\$3,500,000) by the Department of Defense. The second project involves the study of adenovirus vectors for the treatment of pancreatic cancer. Position would investigate role of oncogenes in pathogenesis of pancreatic cancer and examine combinations of gene therapy or chemotherapy in *in vivo* models. The applicant should have a Ph.D. in a relevant field and experience in adenovirus vectors.

MUSC is located near the Atlantic Ocean in historic Charleston, South Carolina. Applicants should send curriculum vitae and the addresses and telephone numbers of three references to: **Michael Mitas, Ph.D., Hollings Cancer Center, Medical University of South Carolina, 86 Jonathan Lucas Street, P.O. Box 250956, Charleston, SC 29425.**

POSTDOCTORAL POSITION

Available at Stanford University Department of Radiation Oncology to study radiation-induced apoptosis, relevant signal transduction pathways, and the mechanism of action of Bcl-2 family members. Please contact: **Susan Knox, Ph.D., M.D., Department of Radiation Oncology, Stanford University Medical Center, CCSR South RMI245, 269 Campus Drive, Stanford, CA 94305. Telephone: 650-725-2720; FAX: 650-725-8231; e-mail: knox@reyes.stanford.edu.**

POSTDOCTORAL POSITION immediately available to investigate the posttranscriptional regulation of CD40L in activated T cells. Strong background in protein chemistry and/or molecular biology is desired. Qualified candidates should send résumé and names of three references to: **Dr. Lori Covey, Department of Cell Biology and Neuroscience, Rutgers University, 604 Allison Road, Piscataway, NJ 08854.**

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE FRED HUTCHINSON CANCER RESEARCH CENTER

A quantitative research group in the Division of Public Health Sciences at the Fred Hutchinson Cancer Research Center is actively developing methods to apply statistical modeling techniques to functional genomics technologies such as DNA microarrays. This group is currently seeking Postdoctoral applicants who have training in molecular or cellular biology and are interested in developing a career in bioinformatics. Candidates are trained preferably in biological disciplines (e.g., molecular biology, cellular biology, or human genetics) and must demonstrate a strong background or interest in mathematics, statistics, or computer science. Computer programming experience is also a valuable asset. Preference will be given to those who are familiar with one or more of the following: (1) scientific programming in general; (2) C/C++; (3) Java; (4) MATLAB; (5) statistical packages, such as SAS or S-Plus.

Salary dependent on experience; excellent benefits. To apply: E-mail cover letter and résumé (as MS Word attachment or inserted into message) to: **Trina Brown, 1100 Fairview Avenue, MW 805, Seattle, WA 98109-1024. E-mail: tabrown@fhcrc.org; FAX: 206-667-2437.**

Fred Hutchinson Cancer Research Center is an Equal Opportunity Employer committed to workforce diversity.

POSTDOCTORAL FELLOW position available immediately to investigate the role of Myc-family proteins in prostate development and growth. Studies include *in vitro* analysis of transfected prostate cell lines, *in situ* hybridization, and cell proliferation studies. Applicants for this two-year position should possess a Ph.D. in the general area of biological sciences or cell and molecular biology and have a proven interest in reproductive or prostate biology research. Curriculum vitae and three academic references should be sent by September 29, 2000, to: **Barry G. Timms, Ph.D., Division of Basic Biomedical Sciences, School of Medicine, University of South Dakota, Vermillion, SD 57069-2390 U.S.A. E-mail: bttimms@usd.edu; FAX: 605-677-6381; Telephone: 605-677-5144; TDD: 605-677-6389. Affirmative Action/Equal Opportunity Employer.**

NIH-funded laboratory is seeking a **POSTDOCTORAL FELLOW** to contribute to ongoing research. Applicants must have a Ph.D. in molecular or cell biology with a minimum of five years of research experience in an academic environment. Individuals highly motivated in research with experience in DNA microarray technology are required. The knowledge of bioinformatics is a plus. The candidate must have a significant documented record of achievement. Competitive salary. Please send brief statement of research interests, capabilities, and goals; curriculum vitae; and names of three references to: **Dr. M. Blumenberg, Department of Dermatology, New York University School of Medicine, 550 First Avenue, Tisch Hospital, Room H-360, New York, NY 10016. We are an Equal Opportunity Employer.**

POSTDOCTORAL POSITION to study serotonergic influences on amygdala activity. Experience with single-unit recordings and/or neuropharmacologic techniques desirable. Contact: **Adrian R. Morrison, D.V.M., Ph.D., Laboratory for Study of the Brain in Sleep, School of Veterinary Medicine, Department of Animal Biology, University of Pennsylvania, 3800 Spruce Street, Philadelphia, PA 19104-6045. Telephone: 215-898-8891; FAX: 215-573-2204; e-mail: armsleep@vet.upenn.edu.**

POSTDOCTORAL POSITION available to study the molecular basis of antigen presentation by MHC class II molecules and its relationship to immune defense in viral infections. Applicants should have a strong background in immunology, with experience in molecular biology or biochemistry. Please e-mail curriculum vitae and names of three references to: **Dr. E. Mellins; e-mail: mellins@stanford.edu.**



**Center for Biologics Evaluation
and Research**
Food and Drug Administration
**SERVICE FELLOWSHIP
PROGRAM**

The mission of the Center for Biologics Evaluation and Research (CBER) is to protect and enhance the health of the public by assuring the safety, purity, potency, and efficacy of biological products. This broad range of products includes vaccines, blood products, certain diagnostic materials, and other biological and biotechnological agents.

Service Fellowships* provide for the employment and development of promising research/regulatory review scientists to accelerate and enhance scientists' careers through close associations with lead authorities in health-related research. These fellowships also serve to strengthen the research community by assuring a continuous exchange of talent between the Center and other scientific facilities.

- Initial appointments for 2 years, with possible extensions up to a maximum duration of 7 years;
- Ph.D. or equivalent degree (e.g., M.D., D.V.M., or Sc.D.) in the health sciences.

Salary: \$35,310 – \$110,028 based upon qualifications.

Location: Positions are located on the campus of the National Institutes of Health or in close proximity.

Applications are accepted throughout the year and will be made part of an applicant supply file for current and future vacancies.

Interested applicants should send a current Curriculum Vitae with cover letter to:

**Food and Drug Administration,
Center for Biologics Evaluation and
Research**
Recruitment Staff, SFP-00-01
1401 Rockville Pike, HFM-123
Rockville, Maryland 20852-1448

*The Food and Drug Administration is an
Equal Employment Opportunity Employer
and has a smoke free environment.*

*This agency provides reasonable accom-
modations to applicants with disabilities.*

*Participants other than U.S. citizens,
under the Service Fellowship Plan, must
have valid working visas.

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Laboratories,
we continue to
launch new advances
in medicine.*

An EOE, we are committed
to employee diversity.

Abbott Laboratories is a global diversified company dedicated to the discovery, development, manufacture and marketing of health care products and services. Around the world, the company's 57,000+ employees are committed to improving people's lives by providing cost-effective health care technologies. We are interested in interviewing candidates for the following opportunity for our Pharmaceutical Products Division in Abbott Park, Illinois:

Post-Doctoral Fellow

The Department of Structural Biology at Abbott Laboratories is currently seeking a Post-doctoral fellow to join the Protein Crystallography group. The qualified candidate will focus on membrane protein crystallization and membrane protein purification. The fellow will work together with members of the crystallography, protein biochemistry, and project teams to purify target proteins, develop new membrane protein crystallization methodology, crystallize membrane proteins, and solve their structures. Experience in membrane protein purification, membrane protein crystallization, or protein crystallography with a strong interest in pursuing membrane protein targets is desirable.

Push the limits of your skills and talents with Abbott Laboratories - a company on the cutting-edge of tomorrow. Please send resumes to: Abbott Laboratories, Ad Code: 2K-KDA2027, 100 Abbott Park Road, D-583, AP9A, Abbott Park, Illinois 60064. Or visit our web site at www.abbott.com

**ABBOTT
LABORATORIES**
Quality Health Care Worldwide

Postdoctoral Research Associate/Microbiologist Southern Research Institute Birmingham, Alabama

The Biological Chemistry Department at Southern Research Institute has an immediate opening for a postdoctoral scientist to design and perform research that is associated with a grant from the National Institute of Allergy and Infectious Diseases. The project involves characterization of the metabolism and mechanism of action of nucleoside analogs in mycobacteria and human cells, purification and analysis of purine metabolic enzymes, cloning of genes involved in purine metabolism, and interaction with organic chemists in the development of novel antimycobacterial agents with special focus on *Mycobacterium tuberculosis*. The successful candidate will have a recent Ph.D. in Microbiology, Biochemistry, or a related discipline. Excellent oral and written skills required. Send your curriculum vitae, a cover letter describing your research experiences and goals, and reference information to: Sheryl H. Brown, Dept. 796, Southern Research Institute, P.O. Box 55305, Birmingham, AL 35255-5305. Must refer to Dept. 796. Fax: (205) 581-2880. E-mail: s.r.brown@sri.org. EOE/AAP



Postdoctoral Fellowship at NIH HIV Research

A postdoctoral position is available for molecular studies on replication of HIV and development of new anti-HIV strategies. Research projects include the role of the viral nucleocapsid protein in HIV reverse transcription and investigation of virus assembly. Applicants should have a strong background in molecular biology and some experience working with RNA and enzymes; virology background desirable. Less than five years of postdoctoral experience is required. Please send a curriculum vitae, bibliography, and the names and addresses of three references to:

**Dr. Judith G. Levin, Chief
Section on Viral Gene Regulation
Laboratory of Molecular Genetics
NICHD, Building 6B, Room 216
NIH
Bethesda, MD 20892-2780
Fax: (301)-496-0243
Email: judith_levin@nih.gov
Website: <http://dir.nichd.nih.gov/lmg/svgr/index.htm>**

NIH is an Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION available for recent Ph.D. graduate to study signal transduction pathways involved in normal and leukemogenic hematopoiesis. Our laboratory utilizes the erythropoietin receptor as a model of normal cytokine signaling and studies signaling pathways activated by the TEL-JAK2 chromosomal translocation. Experience in molecular biology, cellular biology, protein biochemistry, and/or animal models is essential. Please forward your curriculum vitae and names of at least three references to: **Dwayne L. Barber, Ontario Cancer Institute, 610 University Avenue, Toronto, Ontario M5G 2M9 Canada. FAX: 416-946-2065; e-mail: dbarber@oci.utoronto.ca.**

POSTDOCTORAL RESEARCH POSITION available immediately to study the molecular mechanism of transformational recombination and the role of transformational recombination in the development of antibiotic drug resistance in *Streptococcus pneumoniae*. Experience in mechanistic enzymology, nucleic acid biochemistry, or protein chemistry is desirable. Please send curriculum vitae and names of references to: **Dr. F. R. Bryant, Department of Biochemistry and Molecular Biology, Johns Hopkins University, 615 North Wolfe Street, Baltimore, MD 21205. E-mail: fbryant@jhsph.edu. Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available immediately for a highly motivated Scientist to study the role of PKC signaling in human skin carcinogenesis with an emphasis on cell cycle and apoptosis regulation. Applicants must have a Ph.D. and/or M.D. degree and a strong background in biochemistry and molecular biology. If interested, please forward your curriculum vitae and contact information for three references to: **Dr. Mitchell F. Denning, Cardinal Bernardin Cancer Center, Loyola University Medical Center, 2160 South First Avenue, Maywood, IL 60153. E-mail: mdennin@lumc.edu. An Equal Opportunity Employer/Educator.**

POSTDOCTORAL POSITION to investigate basic glioma tumor biology. Projects include study of resistance to radiation-induced apoptosis (*PNAS* 95: 14453-14458, 1998), study of receptor tyrosine kinases, and other factors leading to transformation in astrocytes. M.D. and/or Ph.D. degree(s) and experience in molecular biology are required. Curriculum vitae and names of three references to: **Dr. Hui-Kuo Shu, Department of Radiation Oncology, University of Pennsylvania School of Medicine, John Morgan Building, Room 1801, Philadelphia, PA 19104-6072. E-mail: shu@xrt.upenn.edu.**

POSTDOCTORAL POSITION. A Postdoctoral position is available immediately to conduct a functional analysis of genes responsible for the biosynthesis of the antibiotic valinomycin in *Streptomyces* (see *Microbiology UK* 146:345-352, 2000). Previous training in molecular biology is required. Prior experience with *Streptomyces* genetics is preferred. Send curriculum vitae and names of three references to: **Dr. R. J. Parry, Department of Chemistry MS-60, Rice University, 6100 Main Street, Houston, TX 77005-1892. E-mail: parry@rice.edu.**

POSTDOCTORAL POSITION available to study the role of hormone replacement on blood pressure regulation, specifically estrogen's regulation of the renin-angiotensin system. Candidates should have a Ph.D., M.D., or equivalent degree. A strong background in physiology and pharmacology is desirable. Submit curriculum vitae with three references to: **K. Bridget Brosnihan, Ph.D., Hypertension and Vascular Disease Center, Wake Forest University School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157-1032.**

POSTDOCTORAL POSITION to study the molecular biology of lung morphogenesis. Basic cloning techniques, *in situ* hybridization, and/or immunohistochemistry are required. Excellent benefits with possibility of promotion. Contact: **Dr. Parviz Minoo, Director of Research, Department of Pediatrics, University of Southern California School of Medicine, 1801 East Marengo Street, Los Angeles, CA 90033. E-mail: minoo@hsc.usc.edu.**

POSITIONS OPEN

SPECIALIST BIOCHEMISTRY AND MOLECULAR BIOLOGY

Posting date: August 3, 2000

Posting number: NSC-1277

Continuing system, 12-month basis, 100% time.

Salary: \$65,000 to \$85,000

Duties: A Specialist appointment as **DIRECTOR** of the Michigan State University Genomics Technology Analytical Core (GTAC). Oversee high-throughput DNA and other sequencing, microarray (both c-DNA and oligonucleotide), and the bioinformatics thrusts of GTAC. Development of collaborative efforts with the bioinformatics and microarray thrusts of the Michigan Life Sciences Corridor ([website: http://www.msu.edu/unit/vprgs/LSC/LSC%20Page.htm](http://www.msu.edu/unit/vprgs/LSC/LSC%20Page.htm)) and the computational biology ([website: http://compbio.cse.msu.edu](http://compbio.cse.msu.edu)) efforts at MSU is expected. The individual will be a member of the Oversight Committee of the GTAC and will also serve as an *ex officio* member of the GTAC User Committee. A capacity to interact constructively with graduate students, research associates, faculty, and research administrators at the college and university level is essential.

Qualifications: Ph.D. in the biological, chemical, or physical sciences with demonstrated accomplishments in managing a broad-based service facility. Experience in handling large budgets and in assisting researchers to develop budgets for internally and externally funded research programs is necessary. A track record in developing methods to assist funded research programs is desirable.

Applications due: September 15, 2000, or until an acceptable applicant is recruited. Send letter of interest, curriculum vitae, and three letters of reference to: **Dr. Loran Bieber, Department of Biochemistry and Molecular Biology, Room B212 Biochemistry Building, Michigan State University, East Lansing, MI 48824-1319. Telephone: 517-353-3180; FAX: 517-353-9334; e-mail: bieber@msu.edu.**

BIOETHICS SCHOLAR

The Molecular Biology Program at the University of Missouri-Columbia will sponsor a Visiting Scholar in bioethics and/or biopolitics for the 2001-2002 academic year or a portion thereof. Three groups of molecular biologists are available for collaboration with an established scholar who has a record of research on ethical or policy issues in medicine or in agricultural biotechnology. These groups are performing federally funded research on (1) corn and soybean genomes, (2) development and reproduction of domestic animals including animal cloning, and (3) human genetics. The Bioethics Scholar will also have links to our growing interdisciplinary program in bioethics, including faculty from philosophy, law, journalism, agriculture, and medicine. We seek applicants trained in any of a wide range of academic areas within the social sciences or life sciences, as well as scholars with experience in medical ethics who wish to expand their work into agricultural biotechnology. Send curriculum vitae and three references (include names, addresses, and e-mail addresses) to: **Dr. R. Michael Roberts, Molecular Biology Program, 311 Tucker Hall, University of Missouri, Columbia, MO 65211. FAX: 573-884-9676; e-mail: RobertsRM@missouri.edu.** Review of applications will begin October 15, 2000, and continue until a suitable candidate has been found. *The University of Missouri is an Equal Opportunity/Americans With Disabilities Act Institution.*

Great Lakes. **POSTDOCTORATES/GRADUATE STUDENTS** wanted to study the molecular cell biology of the Grb10 and the new PSM/SH2-B adapter families in cancer and insulin action (see *Nature* 324:68, 1986; *Science* 236:197, 1987; *EMBO J.* 8:2943, 1989; *J. Virol.* 68:411, 1994; *JBC* 271: 8882, 1996; *J. Biochem.* 122:1105, 1997; *JBC* 273: 3136, 1998; *MCB* 19:6217, 1999; *Oncogene* 19:39, 2000). Contact: **Heimo Riedel, Ph.D., 2171 BIO SCI, Wayne State University, Detroit, MI 48202. E-mail: hriedel@sun.science.wayne.edu. Wayne State University is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

DEVELOPMENTAL BIOLOGIST

The Biology Department of Albion College seeks a full-time, tenure-track **DEVELOPMENTAL BIOLOGIST** to begin August 2001. A Ph.D. is required, and teaching experience is preferred. The successful candidate will be expected to teach an upper-level undergraduate course in developmental biology, which includes genetic, evolutionary, and medical perspectives, and will develop a course in the candidate's area of expertise. The successful candidate will also share responsibilities in introductory biology courses. A research program that utilizes classical and molecular techniques and incorporates undergraduate students is expected. Candidates with research interests in developmental neurobiology are particularly encouraged to apply, as Albion College has recently developed an interdisciplinary neuroscience program. Facilities include standard molecular biology equipment, TEM and SEM, and a 135-acre nature center. Albion College is a selective, liberal arts college of approximately 1,500 students, located in south central Michigan within an hour's drive of three major universities. See [website: http://www.albion.edu/biology/](http://www.albion.edu/biology/) for further information. Send letter of application, including teaching philosophy and research interests; curriculum vitae; graduate and undergraduate transcripts; and three letters of reference to: **Dr. J. Dan Skean, Jr., Chair, Biology Department, Albion College, Albion, MI 49224-1954.** Deadline for applications is October 2, 2000. *Albion College is an Equal Opportunity Employer committed to diversity as a core institutional value.*

COORDINATOR CONSERVATION RESEARCH

The Nature Conservancy (TNC) seeks an experienced **SCIENTIST** to take a lead role in coordinating research across the organization. The Coordinator identifies key TNC research needs; develops internal networks of scientists and projects; and delivers workshops and training. As part of a TNC team furthering the goal of improving conservation through research, the Coordinator develops fundraising strategies and participates in projects on emerging issues. Ph.D. in conservation biology or related field, more than three years of experience integrating research into conservation, excellent interpersonal and communication skills, strong knowledge of conservation practice, forward thinking, and prior TNC experience. Located at University of California Santa Cruz with frequent travel. Review full posting at [website: http://www.tnc.org](http://www.tnc.org) before applying (listed under State Programs, California). Submit letter, curriculum vitae, and names of three references by 15 October 2000 to: **Dr. E.A. Chornesky, The Nature Conservancy, c/o Environmental Studies Department, Natural Sciences 2, 1156 High Street, University of California, Santa Cruz, CA 95064.**

PSYCHIATRY CHAIR SEARCH

The College of Medicine of the University of Tennessee Health Science Center seeks nominations and applications for a **CHAIR OF PSYCHIATRY**. Applicants should hold the M.D. degree and be Board-certified in psychiatry with established credentials in education, research, and clinical service. Special consideration will be given to applicants with demonstrated abilities in fundamental, applied, or clinical research. The Chair will have the opportunity to appoint several new faculty and interact with a large, well-funded neuroscience research community. Applicants are requested to submit curriculum vitae and the names and addresses of three references to:

William A. Pulsinelli, M.D., Ph.D.
Chair, Psychiatry Advisory Committee
The University of Tennessee Health Science Center
800 Madison Avenue
P.O. Box 63647
Memphis, TN 38163

The University of Tennessee is an Equal Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans With Disabilities Act/Age Discrimination in Employment Act Employer.

When you work at Dana-Farber Cancer Institute, you're working to save lives. Vital to the search for a cure, each position offers a unique challenge. A challenge to share your passion for life.


POSTDOCTORAL POSITION

HARVARD MEDICAL SCHOOL

Position available to study viral and host mechanisms in HIV infection. Projects include 1) chemokine receptors and mechanisms of pathogenesis in the CNS (Nature 385:645, 1997; J Virol 73:897, 1999); 2) HIV regulatory proteins (JBC 273:19879, 1998; JBC 274:27981, 1999); 3) long-term non-progressors. Recent Ph.D. and experience in molecular biology is required.

Send curriculum vitae, brief description of research experience, and names of three references to: **Dr. Dana Gabuzda, Dana-Farber Cancer Institute, JF 816, 44 Binney Street, Boston, MA 02115. FAX 617-632-3113.** We are an Affirmative Action/Equal Opportunity employer.






POSTDOCTORAL FELLOW

SAIC Frederick, a division of Science Applications International Corporation, works at the forefront of biomedical research at the National Cancer Institute (NCI) Frederick Cancer Research & Development Center in Frederick, MD. We are an innovative biotechnology organization dedicated to the development of knowledge and tools for diagnosis, treatment and prevention of human cancer and AIDS. We currently have postdoctoral opportunities available for individuals with PhD degrees in biology, immunology, virology, molecular biology, cellular biology or other related sciences and experience, or interest in working in the following areas:

- **HIV-1 Replication:** Examination of the interactions between the cell and the assembling HIV-1 virions using virological, molecular, biochemical and cell biological techniques. Experience in HIV-1 biology desired.
- **Drug Discovery and Development:** Utilization of two hybrid systems to discovery of small molecular inhibitors of protein interaction and/or genetically engineering of non-pathogenic bacteria for the mucosal delivery of antiviral prophylaxis. Direct experience in successful development and application of bacterial recombinant expression systems for production and characterization of bioactive proteins, as well as mutants and conjugates is desired.
- **Gene Regulation:** Research on the hypoxia-inducible promoters and their potential use as target for cancer therapeutics.
- **Recombinant Antibody Technology:** Creation and characterization of recombinant antibody fragments derived from hybridomas and phage libraries; production and characterization of fusion proteins and recombinant multivalent antibody complexes for purpose of use in clinical oncology. Experience with RNA/DNA extraction and analysis techniques is desired.
- **HIV and SIV Pathogenesis:** Identification and characterization of viral and host factors involved in determining different patterns of viral replication in vivo, and associated clinical courses and outcomes in the HIV and SIV systems.
- **Retroviral Research:** Through independent research, determine the function of retroviral proteins using molecular biology, cellular biology and protein chemistry techniques.

At Science Applications International Corporation, we believe people are our greatest resource. In addition to our excellent benefits and compensation package, we offer the opportunity to work in state-of-the-art facilities and collaborate with world-renowned scientists. If you desire to be part of an organization that is moving into the future, e-mail your resume to: sallwein@mail.ncifcrf.gov. Visit our Web site at: <http://saic.ncifcrf.gov> for additional information about our organization and other career opportunities.

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AA/EOE MF/DV

EUROPEAN OPPORTUNITIES



FONDATION ARES-SERONO

THE ARES-SERONO FOUNDATION

The Ares-Serono Foundation Fellowships in Biomedicine

2001 Award Announcement

FELLOWSHIPS IN REPRODUCTIVE ENDOCRINOLOGY

Two Fellowships will be awarded by the Ares-Serono Foundation for postdoctoral training pertaining to studies in the field of reproductive endocrinology, particularly related to molecular or immune mechanisms potentially leading to therapeutic application, based on an international competition.

Fellowship Terms

Full-time postdoctoral training
2 years of support
USD40,000 annual grant towards salary and direct expenses for postdoctoral training

Eligibility

1. Applicants must have completed a PhD and or MD or equivalent degree within 3 years from the start date of a fellowship.
2. Candidates applying for a second postdoctoral fellowship must be changing institutions.
3. Ability to communicate fluently in English (verbal and written)

For the Application form and Eligibility Guidelines, please contact:

The Ares-Serono Foundation, 12 chemin des Aulx, 1228 Plan-Les-Ouates, Geneva, Switzerland

Fax: +41-22-706-9398

Internet address: Deborah.Moore@serono.com

POSTDOCTORAL OPPORTUNITIES

Los Alamos National Laboratory has an internationally recognized Postdoctoral Program with over 300 postdoctoral researchers. The program offers exciting opportunities in a wide variety of scientific fields that include, but are not limited to:

- | | |
|---------------------------------|--------------------------|
| Biosciences | Engineering |
| Chemistry | Materials Science |
| Computing | Mathematics |
| Earth and Space Sciences | Physics |

Regular postdoctoral appointments are for two years and are renewable for a third year. In addition, each year, 30 prestigious Postdoctoral Fellowships (including Oppenheimer, Feynman, and Reines Fellowships) are awarded strictly on merit. Current starting salaries range from \$51,800 to \$74,900, and a generous, comprehensive benefits package is included.

For further information on the program, the Laboratory's research areas, and how to apply, visit our Web site at:
<http://www.hr.lanl.gov/Postdoc>

Los Alamos National Laboratory is an Equal Opportunity Employer and seeks qualified candidates regardless of ethnicity, gender, or citizenship.



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Science Serving Society

POSTDOCTORAL OPPORTUNITIES



LOYOLA
UNIVERSITY
CHICAGO

**POSTDOCTORAL FELLOWSHIP
NEUROSCIENCE AND AGING INSTITUTE
Loyola University Chicago
Stritch School of Medicine**

The Neuroscience and Aging Institute of Loyola University Chicago has an immediate opening for a Postdoctoral Fellowship position. Recent recipients of a Ph.D. and/or M.D. degree seeking further training in Neuroscience are encouraged to apply. Stipend includes a salary of \$25,000 in the first year, \$26,000 in the second year plus \$8,000 in additional funding for supplies and travel each year. Liberal benefits included.

Successful applicants will select a mentor from among the more than 70 members of the Neuroscience and Aging Institute and its Division for Research on Drugs of Abuse. These members include faculty from the Departments of Cell Biology, Neurobiology, and Anatomy, Molecular and Cellular Biochemistry, Neurological Surgery, Neurology, Pathology, Pharmacology, Physiology and Psychiatry, and also from the Parly Hearing Institute and the Hines VA Hospital. A directory of Neuroscience Faculty and their particular research interests is available upon request.

Areas of research focus include: neurodegenerative diseases; neurodevelopment; neuroendocrinology/neuroimmunology; neuroregeneration/neuroplasticity; neurotoxicity; neurotransmitter/neuropeptide receptor systems; the neurobiology of drugs of abuse; and sensory neuroscience.

Candidates should promptly forward a letter of interest, including future research interests and career goals, curriculum vitae, and arrange for 3 letters of reference to be sent to:

**Neuroscience and Aging Institute Fellowships Committee
c/o Paula Griffin-Arnold, Building 117, Room 29
Loyola University Medical Center
2160 S. First Avenue
Maywood, IL 60153**

(708)216-6755 FAX (708)216-6823

<http://www.meddean.luc.edu/lumen/DeptWebs/nsai/index.htm>

INFORMATION MUST BE RECEIVED AND FILE COMPLETED BY DECEMBER 1, 2000. DEADLINE FOR APPLICATION IS FIRM.

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

Biotechnology

The Novartis Institute for Functional Genomics (also known as Genomics Institute of the Novartis Research Foundation - GNF), located in the Torrey Pines area of San Diego, CA, is developing and applying novel technologies for genome-wide functional characterization. GNF seeks the following:

Postdoctoral Associate

Will develop and adapt high-throughput genomics methods such as parallel phenotyping, ultra high-throughput screens, transcriptional profiling and mass-spectrometry to the study of microbial or parasite genomes. Successful candidate has an interest in creative applications of novel technologies, independence, and strong publication record. Contact Elizabeth Winzeler, PhD at address below.

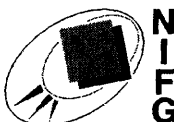
Postdoctoral Associate

Will be instrumental in developing strategies for validating and following up the results of RNA expression profiling experiments. Emphasis on antisense approaches to downregulate genes in cell culture, and on using RNA profiling as a tool to assess their usefulness. Exp with tissue culture and RNA techniques required. Contact P. Zarrinkar & Garret Hampton, PhD at address below.

Microarray Technology

Will implement/evolve the use of spotted arrays at GNF. Duties include producing, exploring and optimizing various array formats, and collaborating with GNF discovery groups on RNA profiling projects. Exp with spotted arrays and RNA techniques highly desirable. Great attention to detail required. Position level commensurate with exp. Contact P. Zarrinkar & Garret Hampton, PhD at address below.

Send CV/resume to:
GNF, HR (Contact Name), 3115 Merryfield Row, Suite 200, San Diego, CA; 92121-1125. Fax: (858) 812-1670. EOE.



**PRE- & POSTDOCTORAL
TRAINING IN MAMMALIAN
GENETICS**

The Jackson Laboratory, a non-profit research center, provides a unique research environment with unparalleled resources for training in animal models of development & disease.

Areas of expertise include: Cancer, Developmental Biology, Aging, Genetics of Complex Traits, Genomics, Immunology/Hematology, Metabolic Diseases, Neurobiology, Bioinformatics/Statistical Genetics, Cryopreservation/Assisted Reproduction

Letters of application should include: Curriculum vitae, statement of research interests, list of publications, and names of three references. Predoctoral program is in conjunction with the University of Maine and is limited to US citizens or permanent residents.

To apply contact: Suzanne Serreze, The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609; Phone: 207-288-6420, FAX: 207-288-6079, email: sbs@jax.org, <http://www.jax.org>.

EO/AA Employer



**MAYO CLINIC
MAYO CANCER CENTER
AND
GASTROENTEROLOGY
RESEARCH UNIT**

Postdoctoral positions in Pancreatic Development and Pancreatic Cancer are immediately available for outstanding individuals to participate in an intensive collaborative effort among cell biologists, biochemists, molecular biologists, and structural biologists to understand molecular mechanism underlying the control of pancreatic cell morphogenesis and its alterations during pancreatic cancer development. Projects will use *in vitro* studies, transgenic and knock out animal models for pancreatic morphogenesis and transformation as well as molecular studies using human pancreatic cancer tissue. The research environment at the GI Research Unit and Mayo Cancer Center offers an excellent opportunity for training and career development in basic science linked to a unique clinical setting for disease-oriented translational research. Strong experience in biochemistry, molecular, and/or structural biology is required.

Specific projects include:

1. Role of pancreatic transcription factors in gene expression, morphogenesis, and neoplastic transformation.
2. Structural biology and molecular modeling approaches for characterizing the DNA binding and transcriptional repressor activities of novel Sp1-like transcription factors.
3. Animal models for molecular studies on pancreatic development and cancer.
4. Expression and mutational profiling of pre-neoplastic lesions in human pancreatic cancer.

Please forward a curriculum vitae, a description of research experience and three references to:

**Raul Urrutia, M.D.
GI Research Unit, Alfred 2-435
Mayo Clinic
200 First Street SW
Rochester, MN 55905
Fax: 507-255-6318
E-mail: urrutia.raul@mayo.edu**

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Yale UNIVERSITY

Junior Faculty Positions in Ecology and Evolutionary Biology

Biological Diversity/Systematics

The Department of Ecology and Evolutionary Biology at Yale University invites applications for a junior faculty (assistant professor) position in the area of biodiversity/systematics. We are broadly interested in individuals with research programs focused on biological diversity, including specialists on the phylogeny of any group of organisms and/or problems in character evolution, biogeography, disparity, diversification, etc. The Department of Ecology and Evolutionary Biology is a new and expanding department with excellent programs in molecular evolution and theoretical biology. Yale's Peabody Museum of Natural History provides access to outstanding systematics collections and the opportunity for a curatorial appointment.

Interested candidates should submit a CV, three relevant reprints or manuscripts, a brief research and teaching statement, and the names and addresses of four potential evaluators by October 15, 2000. Send all materials to: **Michael J. Donoghue, Chair, Biodiversity Search Committee, Yale University, Department of Ecology and Evolutionary Biology, P. O. Box 208106, New Haven, CT 06520-8106, E-mail: michael.donoghue@yale.edu.**

Ecology

The Department of Ecology and Evolutionary Biology at Yale University invites applications for a junior faculty (assistant professor) position in ecology. We are broadly interested in individuals doing research on populations, communities, or ecosystems. A record of achievement and a promising research program are more important than the specific research area. The Department of Ecology and Evolutionary Biology is a new and expanding department with excellent programs in molecular evolution and theoretical biology.

Interested candidates should submit a CV, three relevant reprints or manuscripts, a brief research and teaching statement, and the names and addresses of four potential evaluators by October 15, 2000. Send all materials to: **Stephen C. Stearns, Chair, Ecology Search Committee, Yale University, Department of Ecology and Evolutionary Biology, P.O. Box 208106, New Haven, CT 06520-8106, E-mail: stephen.stearns@yale.edu.**

Yale is an affirmative action, equal opportunity employer.

POSTDOCTORAL OPPORTUNITIES

Postdoctoral Opportunities in Breast Cancer Research



**Lombardi Cancer Center
Georgetown University
Medical Center**

The Lombardi Cancer Center at Georgetown University is recruiting for postdoctoral positions funded by a DOD Institutional Training Grant in Breast Cancer and a Specialized Programs of Research Excellence (SPORE) grant in Breast Cancer. The goals of these programs include the development of individuals having the capability to move basic research findings into applied research settings with patients and populations. Successful applicants will choose a mentor from an interdisciplinary group of investigators who are committed to breast cancer research. Research programs cover such areas as the development of novel anticancer therapies, the genetic and molecular mechanisms of malignant progression, the role of growth factor signaling, invasion and metastasis, the development of hormone insensitivity, and the etiology of breast cancer. Applicants should have a Ph.D. or M.D. Salary is competitive and commensurate with qualifications and experience. *Applications from women and minorities are encouraged.*

Please send curriculum vitae, a short statement of research interests and career goals, and the names and addresses of three references to:



**Breast Cancer Postdoctoral
Training Program
c/o Marc E. Lippman, M.D.
Lombardi Cancer Center
Research Building
3970 Reservoir Rd. NW
Washington, DC 20007-2197**

Postdoctoral Fellows Computational Genomics/Bioinformatics

Cold Spring Harbor Laboratory, a world renowned research facility on the beautiful North Shore of Long Island, is offering two postdoctoral fellowships in the following disciplines:

Gene Regulation Networks

This project is to study gene regulation by combining large-scale gene expression pattern recognition with promoter recognition through collaboration with bench scientists. The candidate is required to have good analytical and programming skills as well as general training in computational biology. Experience with cell cycle regulation is a big plus.

Alternative Splicing

This project is to identify alternative spliced mRNA transcripts in human and mouse under various conditions. In collaboration with experimental groups, the data will be generated by splicing-chips. In addition to have good statistical and programming skills, the candidate should be able to setup a database with MySQL and necessary web interfaces for storing and displaying experimental data. A good understanding of RNA splicing and RNA motif recognition are real pluses.

The Cold Spring Harbor Laboratory offers a competitive postdoctoral salary, a comprehensive benefits package, and an excellent work environment. **To apply please send CV and three letters of recommendation to: mzhang@cshl.org.**



Cold Spring Harbor Laboratory
1 Bungtown Road
Cold Spring Harbor, NY 11724
www.cshl.org

Cold Spring Harbor Laboratory is an equal opportunity employer and encourages applications from women and minorities.



Illumina, Inc. is developing next generation tools that will permit the large-scale analysis of genetic variation and function. We are seeking outstanding individuals for challenging positions in a variety of areas. Some specific positions are listed below. Please see www.illumina.com for additional openings and information. Resumes should be sent to jobs@illumina.com or faxed to 858-587-4297. Please specify the position you wish to apply for at Illumina.

SCIENTIST/ENGINEER, Genomics Automation, MC012

You will develop and implement a high-throughput microtiter-format sample-processing laboratory system and methods to interface with highly parallel microarray analysis. The initial applications include large-scale SNP genotyping and quantitative RNA profiling, and will require high-throughput nucleic acid purification, amplification and labeling. Qualifications: PhD in Engineering or Molecular Biology or equivalent experience with a minimum of 5 years experience in industrial-scale genomics automation and operations. Proven expertise in designing, scaling and trouble-shooting methods for industrial-scale nucleic acid sample purification and processing. Detailed knowledge of microtiter-related robotics, solid-liquid phase separation, software and data management systems.

SCIENTIST, Analytical Chemist, DB001

You will be a member of an interdisciplinary team developing and optimizing Illumina's array technology. You will be responsible for developing and optimizing material requirements for novel immobilization procedures used in biomolecule attachment to solid surfaces. Qualifications: PhD in Analytical Chemistry or related discipline with 2 years industrial work or postdoctoral experience. A strong analytical background in physical characterization of synthetic oligonucleotides using MS, CE, HPLC, and gel electrophoresis. Publication record in nucleic analysis or related field.

DIRECTOR, Scientific Operations, DB006

You will staff and direct an interdisciplinary group capable of automating and integrating sample preparation, bead-array assay and information processing and storage. You will develop and implement a high-throughput microtiter-format sample-processing laboratory capable of supporting both an in-house information business and a service business for external customers. Initial applications include large-scale SNP genotyping and quantitative RNA profiling, and will require high-throughput nucleic acid purification, amplification and labeling. Qualifications: PhD in Molecular or Engineering with 5 years experience in industrial-scale genomics operations. Proven expertise in designing, scaling, and trouble-shooting methods for industrial-scale nucleic acid sample purification and processing. Detailed knowledge of microtiter-related robotics, solid-liquid phase separations and data management systems. Experience with high-throughput sequencing, genotyping or microarray technologies an advantage.

Illumina, Inc. offers a highly rewarding work environment with great potential for personal career growth. We offer competitive salaries, stock option packages, and great benefits. *Illumina is an Equal Opportunity Employer.*

POSTDOCTORAL OPPORTUNITIES



**St. Jude Children's
Research Hospital**
ALSAC • Danny Thomas, Founder

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION available immediately in a multidisciplinary research group to uncover novel mechanisms that regulate cell membrane synthesis. Ongoing projects in functional genomics, molecular biochemistry and transgenic mice address the roles of key enzymes in phospholipid metabolism during cell cycle progression, apoptosis and in whole animals. Motivated scientists with a recent or forthcoming PhD and a strong background in biochemistry or related disciplines can expect a challenging and well-supported research environment and competitive salary/benefit package. Please send curriculum vitae, a short statement of research interests and names of three references to: **Suzanne Jackowski, PhD, Biochemistry Department, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105; suzanne.jackowski@stjude.org.**

An Affirmative Action/Equal Opportunity Employer.

Postdoctoral fellowships to study the immunobiology of tryptophan

Positions are available to study the role of tryptophan and indoleamine 2,3-dioxygenase in the regulation of T cell activation and inflammation. Research areas include: (1) the role of IDO in regulating anti-tumor immunity and response to tumor-cell vaccines; (2) the role of tryptophan in regulating tolerance to solid organ allografts; and (3) the role of IDO in the immunology of pregnancy

A strong background in molecular immunology or transgenic mouse models is desirable. The Institute of Molecular Medicine and Genetics occupies a new state-of-the-art facility, with a well-funded and rapidly expanding program in molecular immunology. Send CV, statement of research interests, and the names of 2-3 references to David Munn (dmunn@mail.mcg.edu) or Andrew Mellor (amellor@mail.mcg.edu), Medical College of Georgia, Augusta, GA 30912. The Medical College of Georgia is a part of the University System of Georgia, an equal opportunity employer.

www.mcg.edu/institutes/immag

POSTDOCTORAL OPPORTUNITIES



SAIC Frederick
A Division of Science Applications
International Corporation
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The AIDS Vaccine Program

Postdoctoral Positions

The AIDS Vaccine Program is a multi-disciplinary group of committed and highly collaborative scientists, under the direction of Larry O. Arthur, PhD, working toward the goal of developing effective vaccines for the prevention of HIV infection and AIDS. Research pursued ranges from fundamental studies in molecular virology to *in vivo* studies of retroviral pathogenesis and evaluations of candidate vaccines in nonhuman primate models, and is supported by a wide spectrum of state-of-the-art core facilities. Postdoctoral positions are currently available in laboratories headed by the following investigators:

Robert J. Gorelick, PhD: Structure function studies of retroviral proteins, with emphasis on determining roles in infection processes and vaccine applications

Jeffrey D. Lifson, MD: Viral and host determinants of retroviral pathogenesis, viral/host immune dynamics in primary infection and *in vivo* vaccine evaluation

David E. Ott, PhD: Retroviral assembly, determinants and mechanisms of incorporation of viral and host cell derived proteins into assembling virions

The AIDS Vaccine Program is located on the campus of the National Cancer Institute's Frederick Cancer Research and Development Center (FCRDC) in Frederick, MD. Qualified applicants will possess a PhD and/or an MD. Positions are with SAIC Frederick, the prime contractor to the NCI for operation of the FCRDC campus with competitive compensation, benefits and a chance to work in a uniquely conducive research environment. Please submit a cover letter, CV, including bibliography, and contact information for three references to: e-mail: sallwein@mail.ncifcrf.gov

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Millennium is a different kind of biopharmaceutical company with a unique vision for the future of medicine. We're working to understand the molecular basis of disease with the goal of making breakthrough therapies available faster for a full range of major under-served diseases. Come explore these opportunities with a progressive and innovative organization, and see why the face of the future never looked brighter.

MOLECULAR PHARMACOLOGY

RESEARCH ASSOCIATES (BS/MS)

Lead Optimization (FATP4)—We are looking for a talented individual capable of playing a key role in a lead optimization program. You will assess the potencies, selectivity and mechanisms of action of small molecule inhibitors of an intestinal fatty acid transporter, working closely with a team of medicinal chemists and *in vivo* pharmacologists. Your goal will be to provide some of the data needed to allow nomination of a preclinical candidate.

Chemokines (CCRI, CCR4, CXCR3)—There is an immediate opportunity for a motivated individual with experience in chemokine receptors or ligand binding assays. You will work with a team of chemists and biologists to optimize a novel chemical lead series. In addition to a degree in biological science, you must have at least 2 years of industrial experience.

Enzyme Assays (Kinases)—We have several immediate and near-term positions for enthusiastic, energetic individuals who have experience in enzyme assays. You will assay the potency and specificity of novel inhibitors of enzyme activity. In addition to a degree in biological science, some industrial experience and familiarity with kinases would be helpful.

G-Protein Coupled Receptors (GPCRs)—We are looking for a dynamic individual to be responsible for the *in vitro* characterization of the binding and functional properties of novel small molecule antagonists active at G-protein coupled receptors. You will work closely with a team of chemists and *in vivo* pharmacologists toward the goal of obtaining a preclinical candidate. Familiarity with ligand binding assays and signal transduction is required, and previous industrial experience is a plus.

ADMET—Join our fast growing ADMET group and play a key role in the drug discovery process by working on numerous projects to identify and deliver drug candidates. You will be responsible for characterizing the absorption properties, metabolic stability, CYP450 inhibition and induction and toxicity of drug candidates. A minimum of 2 years of industry experience is desirable, as is experience with ADMET assays and cytotoxicity assays conducted in high-throughput formats.

SCIENTISTS (PhD)

Lead Optimization—We have an immediate opening for an energetic, enthusiastic individual to be responsible for several lead optimization programs, primarily for chemokine receptor targets, with the goal of identifying and delivering optimized preclinical candidates. You must be a team leader, familiar with standard biochemical and pharmacological procedures for characterizing GPCR receptors and their ligands. A solid industrial background, with experience in at least 1 drug optimization program, and familiarity with downstream components of *in vitro* lead optimization are required.

ADMET—We're looking for an energetic, enthusiastic researcher with ADME/TOX assay experience. Leading the ADME efforts for several programs, you will use basic biochemical techniques, Caco-2 cell culture and transport techniques, drug metabolism and CYP450 assays and analytical techniques. Experience with cell-based assays for cytotoxicity determination is desirable, and 2+ years experience in the drug discovery/development process required.

Join us in building the biopharmaceutical company of the future at our Cambridge facilities. Please respond by sending only one resume using only one of the following methods. Mail your resume to: Millennium Pharmaceuticals, Resume Processing Center, Source Code SC9100, PO Box 798, Burlington, MA 01803. Email: millennium@rpc.webhire.com. Fax: (800) 370-6925. A source code must be included with all submissions. We are an equal opportunity employer committed to discovering the individual in everyone.

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GORDON RESEARCH CONFERENCES

Conferences at the Frontiers of the Biological, Chemical and Physical Sciences

- The 2001 Winter and Spring GRC programs will appear in the October 6, 2000 issue of **SCIENCE**.
- The preliminary 2001 Summer GRC programs will appear in the November 24, 2000 issue of **SCIENCE**.

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WWW.GRC.URI.EDU

Our web site contains the complete schedule of current and upcoming Conferences.
Apply directly from the web! Check it out now, Conferences fill up fast!

POSTDOCTORAL OPPORTUNITIES

POSTDOCTORAL FELLOWSHIPS IN CANCER RESEARCH

The M. D. Anderson Cancer Center Odyssey Program sponsors high quality postdoctoral research at the University of Texas M. D. Anderson Cancer Center. Odyssey Fellowships or Odyssey Scholarships are awarded, depending upon the level of experience, to postdoctoral applicants with the strongest credentials and most promising proposals. The winners of the Odyssey competition receive up to 3 years of support to explore novel areas of clinical or basic cancer research while preparing for successful and independent careers. Provided support includes a generous stipend and a yearly research allowance for supplies, small equipment, and meeting attendance. Selected participants will be asked to present their work at the annual M. D. Anderson Odyssey Symposium.

Next application deadline: 11/01/00 (notice of intent due 10/08/00)

For further information, eligibility criteria, current funding levels, and application packages:

<http://www.mdanderson.org/education/profeducation>

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*Making Cancer History**

CAREERS MAYO

Research Technologist

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Mayo Clinic in Rochester, Minnesota currently has opportunities for Technologists to operate a new GMP vector production facility established to support preclinical and phase I clinical gene therapy studies. A range of different viral and non-viral vectors will be produced in the facility.

Candidates must have three to ten years experience and expertise in two or more of the following areas: generation and use of viral gene transfer vectors, GMP production of biologics, quality control of biologics, documentation systems/controls, process development for large scale tissue and virus culture, process development for large scale purification of biologics. For more information about the Molecular Medicine Program, visit our web site at: www.mayo.edu/research/mmp/.

As a leader in healthcare, Mayo Clinic offers an excellent salary and benefits package. Please submit resume to:



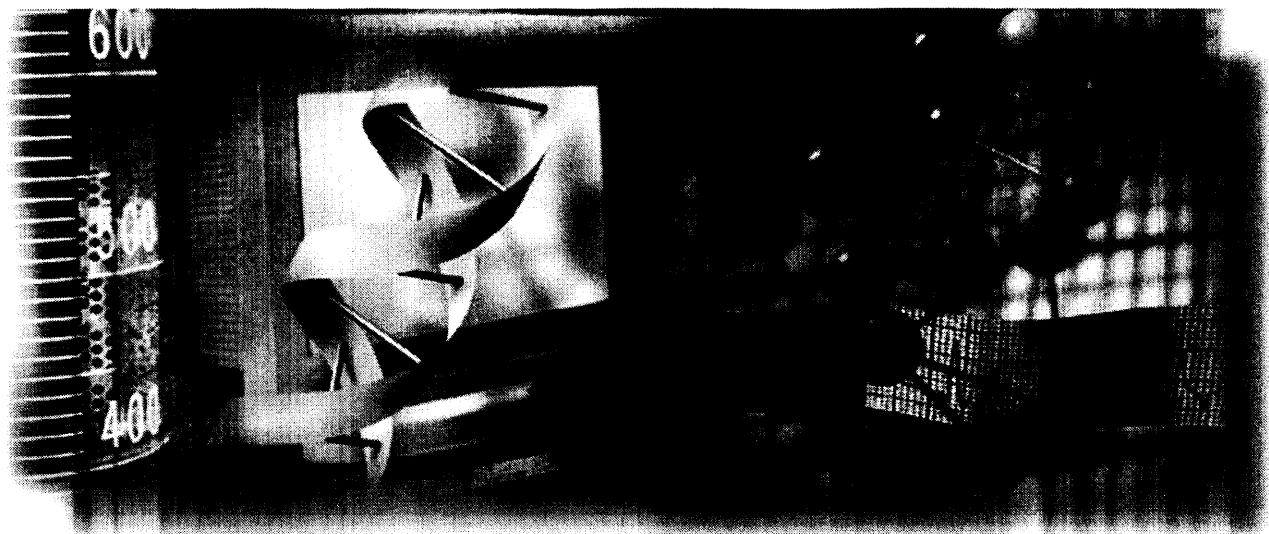
Mayo Clinic

Jill Kelly, Human Resources, OE-4

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DISCOVERY RESEARCH

Ph.D. Scientist - BONE BIOLOGY

Position requires a Ph.D. in Biochemistry or Molecular Biology with 6-8 years of experience. Osteoclast and osteoblast biochemistry and/or molecular biology is essential. Functional genomic experience is highly desired. **Job Code: XHXDD00JA**

Ph.D. Postdoctoral Scientist - ONCOLOGY, Signal Transduction/Genomics

This fellowship within the Cancer Genomics Group, will focus on analysis of a novel MAPK module utilizing traditional as well as cutting edge technologies such as large-scale DNA arrays and sequence databases. Training will be provided in signal transduction and genomics. Ph.D. with background and/or education in Biochemistry, Molecular Biology or related discipline and up to 3 years postdoctoral experience is needed. Research experience in signal transduction is a plus. The ability to work independently and strong interpersonal skills are highly desirable. **Job Code: XHXTM9995**

PROCESS DEVELOPMENT

Principal Engineer - Biotech Development

Ph.D. in Biochemical Engineering or related field with a minimum of 6 years relevant experience with fundamental understanding of protein/virus purification, characterization and scale-up principles. Experience in clinical manufacturing and GMP compliance preferred. Will supervise/provide technical leadership to a team of scientists, engineers and operating staff in the Biotechnology Purification Scale-Up and Production Group. Develop and scale-up technology for purifying biopharmaceuticals, including the assessment and implementation of new technologies. Prepare and review regulatory documents (e.g., HRD, BLA). **Job Code: XHXB9932**

SCIENTIFIC INFORMATION SYSTEMS

Scientific Systems Project Manager - Drug Safety and Toxicology

BS or MS in Life Sciences or Computer Science and project leader/supervisory experience in the development, maintenance and support of software applications. Experience with research software for complex scientific systems helpful. Experience in software validation and information systems regulatory compliance preferred. **Job Code: XHXRI9913**

Senior Scientific Systems Analyst - Structural Chemistry

MS or Ph.D. in Chemistry and experience in development, maintenance, support of computational chemistry software. Responsible for development, maintenance and support of vendor and proprietary research software for computer aided drug design, protein NMR and protein crystallography. Experience with UNIX systems, modern programming languages, and standard computational chemistry software packages a must. **Job Code: XHXRI9938**

Senior Scientific Systems Analyst - Bioinformatics

MS or Ph.D. in Life Sciences and experience in development, maintenance, support of computational biology software. Responsible for development, maintenance and support of vendor and proprietary research software for bioinformatics. Experience with Perl, UNIX systems, and standard bioinformatics software packages a must. **Job Code: XHXRI2016B**

Senior Scientific Systems Analyst - Drug Safety

MS or Ph.D. in Life Sciences and experience in development, maintenance, support of scientific software. Experience in information systems regulatory compliance a must. Responsible for development, maintenance and support of vendor and proprietary research software to provide data collection, analysis and reporting for Drug Safety and Toxicology research. **Job Code: XHXRI2016E**

Senior Scientific Systems Analyst - Drug Metabolism

MS or Ph.D. in Life Sciences and experience in development, maintenance, support of scientific and lab automation software. Experience in information systems regulatory compliance a must. Responsible for development, maintenance and support of vendor and proprietary research software to provide lab automation and data analysis for Drug Metabolism and Pharmacokinetics research. **Job Code: XHXRI2016A**

Senior Scientific Systems Analyst - Discovery Research

MS or Ph.D. in Life Sciences and experience in development, maintenance, support of scientific and lab automation software. Responsible for development, maintenance and support of vendor and proprietary research software for lab automation and data analysis in support of a variety of pharmaceutical discovery research and technology programs. **Job Code: XHXRI2016D**

Senior Scientific Systems Analyst - Discovery Informatics

MS or Ph.D. in Life Sciences and experience in development, maintenance, support of scientific and lab automation software. Responsible for development, maintenance and support of vendor and proprietary research software for lab automation and information management in support of pharmaceutical discovery research. **Job Code: XHXRI2016C**

INFORMATION SECURITY

Manager

BS in Computer Science with 6+ years of experience in security aspects of multiple platforms, operating systems, software, communications and network protocols. Sound judgement and proven management skills needed to take responsibility for assuring the development and implementation of security standards and guidelines in compliance with Corporate policy. Will provide state-of-the-art technical expertise and support of security plans, products and control technologies. **Job Code: XHXRI2023**

We offer an excellent compensation package that includes a competitive salary, a cash incentive bonus program, profit sharing and 401(k). Comprehensive benefits include: group insurance and retirement programs, flexible work arrangements, education assistance, and health and wellness programs. For prompt, confidential consideration, we invite you to forward your resume, which MUST include Job Code for position of interest, to: **E-mail: sprisc@resume.isearch.com; Mail a scannable resume and cover letter (original copy only) to: Human Resources, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-1300.** We are an equal opportunity employer, M/F/D/V. We regret that we are unable to respond to each resume. Only those selected for an interview will be contacted.

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www.sp-research.com



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Syrrx is a San Diego-based startup biotechnology company focused on development and commercialization of breakthrough tools and techniques to enable high-throughput protein crystallography. The success of our core technologies will accelerate the drug discovery process and create an alternative approach to drug discovery that will

result in unique, highly selective drug candidates. In support of this vision, we are looking for highly motivated researchers in the following areas:

Bioanalytical Chemistry (Staff Scientist, Job Code BC1): Highly skilled scientist proficient in the use of LC-MS. Experience in the deployment, operation, and maintenance of LC-MS systems. Minimum of 5 years of research experience and/or doctoral work utilizing LC-MS or related analytical tools preferred.

Bioanalytical/Protein Preparative Scientist (Research Associate, Job Code BC2): Experience with protein and biochemical analysis (fluorescence, CD or other protein spectroscopy, PAGE, ELISA, LC, activity assays, chemical modification assays) and protein preparative tools. Minimum of BS and 2 years of research experience preferred.

Molecular Biology (Staff Scientist, Job Code MB1): Highly skilled molecular biologist with experience in design and implementation of high-throughput baculovirus or mammalian expression systems. Minimum of PhD plus postdoctoral experience preferred.

Molecular Biology (Research Associate, Job Code MB2): Experience in protein expression and ancillary molecular biology skills (PCR, cloning, sequencing, cell culture, etc.). Minimum of BS and 2 years of research experience preferred.

Protein Crystallography (Staff Scientist, Job Code XR1): Highly skilled protein crystallographers with experience in both soluble and membrane-associated proteins. Minimum of PhD plus postdoctoral experience preferred.

Programmer (Job Code CS1): Talented individuals with experience in distributed computing and/or parallel computing to help design and implement a new cutting edge, high-throughput application. We seek to integrate a number of existing smaller applications into an integrated system using the latest systems and tools.

In all cases, scientists with experience in high-throughput systems and knowledge of related issues (e.g. logistics, tracking) are preferred. In addition to an innovative and stimulating workplace, Syrrx provides highly competitive compensation and benefits packages.

To apply, send a cover letter referencing the job code with your curriculum vitae to hr@syrrx.com or by fax (858) 623-0460. Syrrx is an equal opportunity employer.

Syrrx, Inc., 10450 Science Center Drive, San Diego, CA 92121

New York University

MRI PHYSICIST BRAIN IMAGING CENTER

Applications are invited for the position of MRI Physicist in a new brain imaging center at New York University. The NYU Brain Imaging Center is dedicated to research; it is located in the NYU Faculty of Arts and Science (FAS) at Washington Square. Applicants should have experience in functional MRI. The successful candidate will be expected to collaborate with scientists from various FAS departments (Neural Science, Psychology, Chemistry, Biology, Mathematics) on brain imaging experiments, and also to develop an independent research program and contribute to instructional programs.

This tenure/tenure track appointment is expected to be made at the Assistant or Associate Professor level and may be joint between two appropriate science departments in FAS. It is subject to administrative and budgetary approval. The expected starting date is no later than September 1, 2001.

Applications including a CV, list of publications and a statement of research interests should be sent by **November 1, 2000** to: **MRI Search Committee, Center for Neural Science, NYU, 4 Washington Place, New York, NY 10003**. Candidates should arrange to have three letters of reference transmitted directly to the above address.

NYU is an Equal Opportunity/Affirmative Action Employer.



Ottawa Hospital Loeb Research Institute University of Ottawa



**Director, Ottawa Hospital Loeb Research Institute,
University of Ottawa and Vice President, Research, The Ottawa Hospital**

The Ottawa Hospital Loeb Research Institute, University of Ottawa seeks an outstanding scientific leader who has an established track record of achievement as its Director. The Director also will serve as Vice President, Research, of The Ottawa Hospital. This is an exceptional opportunity to join and lead one of Canada's most dynamic and progressive knowledge-based organizations.

The Loeb Health Research Institute, The Ottawa Hospital Research Institute, The Ottawa Hospital and the University of Ottawa have created The Ottawa Hospital Loeb Research Institute (the Institute), University of Ottawa. Built upon the successes of the founding research institutes, each less than 10 years old and comprising over \$30 million annually in external research funding, the new Institute will be the home of over 100 principal investigators.

The Institute, already Canada's fastest growing hospital based research institute, is an integral part of Canada's largest acute care adult hospital, The Ottawa Hospital, and one of Canada's premier research intensive universities, the University of Ottawa.

Committed to making a difference in molecular and clinical sciences, the Institute will focus its research activities in 5 major areas: neurosciences and vision, molecular medicine and genetics, aging, clinical epidemiology and cancer. The Director and Vice President, Research, will propel the Institute to its objective of becoming Canada's premier hospital based research institute.

The successful candidate will be responsible for the development of a comprehensive health research agenda for the Institute and for the Hospital and will play a leading role within the University. S/he will have outstanding interpersonal and leadership skills. S/he will also be adept at cultivating and maintaining personal relationships with donors.

Candidates will have a Ph.D. and/or a M.D. or equivalent professional degree. For confidential consideration, interested individuals should send a letter of interest together with a curriculum vitae to **Howard Alper, Chair, Transition Board of Directors, Ottawa Hospital Loeb Research Institute, University of Ottawa, Pavillon Tabaret 246, Ottawa, ON, K1N 6N5** (halper@uottawa.ca) by September 30, 2000.

In accordance with Canadian immigration requirements, this advertisement is directed primarily, but not solely, to Canadian citizens and permanent residents. Women, aboriginal peoples, members of visible minorities and persons with disabilities are encouraged to apply.



**St. Jude Children's
Research Hospital**
ALSAC - Danny Thomas, Founder

Postdoctoral Research Associate

A newly funded position is available immediately to study mechanisms of mammalian checkpoint control regulated by the ATM and ATR protein kinases with an emphasis on RAD cell cycle checkpoint gene interactions. Candidates should have a strong background in molecular biology and biochemistry. Interested individuals should submit a cover letter describing research interests, a curriculum vitae, and names of three references to:

Christine Canman, Ph.D.
**Department of
Hematology/Oncology
St. Jude Children's
Research Hospital
332 N. Lauderdale Street
DTRT 1034
Memphis, TN 38105**

eo e m/f/d/v

At Monsanto Company, a wholly owned subsidiary of Pharmacia Corporation, we share a common goal: to help people lead longer, healthier lives. We are pioneering the use of life-science technologies to understand the connection between human health, nutrition and agriculture and how it can be used to develop products to improve the quality of life for everyone, everywhere.

PLANT MOLECULAR BIOLOGIST

A highly skilled Molecular Biologist is sought to join a team of scientists involved in the development of enabling vector technologies for the production of transgenic crop plants. The successful candidate will lead a small team of researchers who provide molecular biology support for crop transformation improvement and vector expertise for product development teams. In addition, this individual will design/build base vectors to meet internal "best practice" standards; support transformation method development; and research/manage information in the area of plant gene expression. To qualify, you must have a Master's degree combined with 5 years of additional laboratory experience in plant molecular biology demonstrating proven experience in cloning and vector construction. Knowledge of plant DNA extraction/analysis techniques, experience in plant gene expression and familiarity with Agrobacterium and biolistic-mediated plant transformation technology are highly desirable. The professional we select will be highly motivated and results-oriented with excellent communication skills and the ability to effectively work as a key member of a cross-functional team.

Please submit resume in scannable format, indicating Job Code 00-3319 on all correspondence to: **ASC Staffing, Mail Zone BB51, Chesterfield Village Campus, Attn: Angela Dent, 700 Chesterfield Parkway, North Chesterfield, MO 63198. FAX: 636-737-6134. Or email resume to: angela.m.dent@monsanto.com NO PHONE CALLS PLEASE**

OPTICAL SPECTROSCOPIST

We have an immediate opening for an Optical Spectroscopist in our Crop Analytics labs which is located in Ankeny, Iowa. This position represents a full-time career opportunity in development and validation of chemometric methods based on optical, vibrational or molecular spectroscopy (e.g. NIR, IR, Raman, fluorescence, UV-VIS, etc.) for the compositional analysis of natural products in support of molecular breeding and development of agricultural and nutritional food products. The successful candidate should have a Ph.D. in analytical chemistry, biochemistry, or related field with a strong background in optical spectroscopy and chemometrics. Demonstrated knowledge and experience in multivariate calibration development/validation for quantitative assays and process control are essential. Job Code: 00-0331

BIOINFORMATICS/COMPUTATIONAL SCIENTIST

Candidate will analyze large volumes of gene expression data using computational approaches as well as develop new data analysis/visualization methods. The successful candidate should have a Master's or Ph.D. in Biology, a physical science, Statistics, or a related field with relevant experience. Strong computer skills combined with programming experience (Perl, C, SAS, Splunk, Java) and database knowledge (relational, SQL queries) are highly desirable. Outstanding analytical skills along with an understanding of statistics are musts. Excellent communication and organizational skills are essential.

Please submit resume in scannable format, indicating position title on all correspondence to: **ASC Staffing, Mail Code: E3SJ, Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, Missouri, 63167. Or email resume to: becky.g.prevost@monsanto.com NO PHONE CALLS PLEASE**

RESEARCH SCIENTISTS

The Mystic Research Facility of Monsanto Company seeks experienced, highly motivated team players interested in becoming a part of our dynamic, fast-paced and growing research organization.

Molecular Biologists for the Genetics, Transformation and Quality Control programs. Requirements for various positions range from B.S. to Ph.D. degree in Molecular Biology or closely related discipline.

Cell Biologists for Transformation/Tissue Culture, to focus on production of transgenic maize in support of various company projects. Requires B.S. in related discipline.

Project Scientist for the Corn Trait Development program. Requires a Ph.D. in plant genetics or plant breeding, or M.S. with a minimum of 3-5 years experience.

Send resume and the names of three references, indicating position of interest, to: **Human Resources, Attn: Susan Magee, Monsanto Company, 62 Maritime Drive, Mystic, CT 06355. FAX: 860-572-5241. Or email to: susan.a.magee@monsanto.com NO PHONE CALLS PLEASE**

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POSITIONS OPEN

CANADA RESEARCH CHAIRS FACULTY POSITIONS IN MOLECULAR BIOPHYSICS AT MCMASTER UNIVERSITY

The Department of Physics and Astronomy and the Department of Biochemistry at McMaster University invite applications from outstanding Scientists for two Canada Research Chairs, one senior and one junior, which will be appointed jointly in the two departments. The Senior Chair will be appointed as a tenured **PROFESSOR**, and the Junior Chair will be appointed as a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR**. The purpose of these positions is to initiate an area of research, molecular biophysics, which is new to McMaster and to create strong research and educational links between the Departments of Physics and Astronomy and Biochemistry. Information about the two Departments can be viewed at websites: <http://www.physics.mcmaster.ca/> and <http://www.science.mcmaster.ca/biochem/>. Complete information about the Canada Research Chair Program may be found on website: <http://www.sshrc.ca>.

We encourage applications from individuals with a strong interdisciplinary background in physics and in the biological sciences and whose research complements the current strengths and interests at McMaster, which include structural biology, biomolecular interactions, molecular imaging, drug discovery, chemical biology, bioinformatics, and theoretical biophysics. We are particularly interested in individuals who have or intend to establish independent research programs in supramolecular assemblies and molecular machines, molecular motors, laser tweezers, biophotonics, nanotechnology, and/or computational biophysics. Applicants must have a Ph.D. in physics, biophysics, or a closely related field and have a proven record of research excellence in their area of expertise. Successful applicants are expected to establish a vigorous, externally funded research program and to participate in undergraduate and graduate education. Applicants should submit curriculum vitae, a statement of research interests and future plans, and arrange for three letters of recommendation to be sent to:

Molecular Biophysics Search Committee
Department of Physics and Astronomy
McMaster University
1280 Main Street West
Hamilton, Ontario L8S 4M1 Canada

Applications will be considered after December 1, 2000. McMaster University is committed to Employment Equity and encourages applications from all qualified candidates including women, aboriginal peoples, persons with disabilities, and members of visible minorities. There is no restriction with regard to nationality or residence. Offers will be made in keeping with immigration requirements associated with the CRC program.

RESEARCH SCIENTIST, Aventis Pharmaceuticals, GenCell Division, 3825 Bay Center Place, Hayward, California: Design and carry out *in vitro* assays to evaluate the biological activities of recombinant viruses, establish animal models of human cancers and evaluate the efficacy of therapeutic candidates in development, perform animal surgery to establish clinically relevant models for testing the efficacy of therapeutic candidates, establish assays to assess the tumor-specific immune responses induced by the immuno gene therapies, initiate and conduct research for developing novel cancer gene therapies in established in-house models and/or in collaboration with academic and contract organizations, and perform statistical analysis of the experimental data and preparation of scientific reports and preparation of scientific manuscripts. Must demonstrate expertise in immunology, tumor biology, cancer, immunotherapy, and gene therapy and have experience in mammalian cell culture, primary T cell and dendritic cell cultures, immunological assays, *in vivo* tumor and surgery models, molecular biology techniques, and vectorology. Must possess Ph.D. in immunology and two years of experience in job offered or as immunologist specializing in cell immunology in pharmaceutical industry. Forty hours per week; salary \$79,000 per year. Please submit résumé to Box Number 92.

POSITIONS OPEN

WASHINGTON AND LEE UNIVERSITY

Lexington, Virginia 24450-8303

PLANT BIOLOGIST

The Department of Biology of Washington and Lee University seeks a broadly-trained plant biologist at the **ASSISTANT PROFESSOR** level. The specific area of research interest is open, but preference will be given to candidates working in plant development or physiology with a strongly evolutionary context. This position requires a commitment to teaching as well as to development of a competitive research program eligible for extramural support. In addition to developing botanical offerings, the successful candidate will participate in our introductory biology sequence. Completion of the Ph.D. is required; postdoctoral research experience is desirable. Starting date for these positions is 1 July 2001. Review of completed applications will begin 15 October 2000. Washington and Lee University is a selective liberal arts institution located in a small (population approximately 7,000) historic city in the beautiful central part of the Great Valley of Virginia. Applicants should submit (1) a letter of application, (2) curriculum vitae, (3) statements of teaching and research interests, and (4) letters (signed hard copies) sent directly from at least three references to: **Dr. L. E. Hurd, Department of Biology, Washington and Lee University, Lexington, VA 24450.** Washington and Lee University is an Equal Opportunity Employer.

TWO FACULTY POSITIONS IN BIOLOGY

The Biology Department at the University of Texas at Arlington invites applications for two positions at the rank of **ASSISTANT, ASSOCIATE, or FULL PROFESSOR**. Successful applicants will be expected to establish an externally funded research program and participate in our Ph.D. program in quantitative biology, which will include teaching graduate courses in biometry and experimental design. We encourage applicants with research interests that complement existing strengths in evolution, ecology, genetics, or microbiology and whose approach is quantitative. Possible research areas include but are not limited to evolutionary/ecological genetics, experimental or molecular evolution, or genomics. Applicants must have a Ph.D. (postdoctoral experience preferred) with an established record of productivity. University of Texas at Arlington is located in the Dallas-Ft. Worth metroplex. The Department offers B.S., M.S., and Ph.D. degrees. Submit curriculum vitae, statement of current and future research interests, reprints of recent publications, and names and contact information for three references to: **Search Committee Chair, Department of Biology, Box 19498, University of Texas at Arlington, Arlington, TX 76019-0498.** See our website: <http://www.uta.edu/biology> for more information. Evaluation of applicants begins November 1, 2000. University of Texas at Arlington is an Equal Opportunity/Affirmative Action Employer.

PATHOLOGIST or MOLECULAR/CELLULAR BIOLOGIST: The Pathology Division seeks M.D., M.D./Ph.D., or Ph.D. applicants for a tenure-track faculty position at the **ASSISTANT/ASSOCIATE PROFESSOR** level. The individual will be expected to develop independent and collaborative research in conjunction with an interdisciplinary cardiovascular and renal research focus group. Opportunities exist for a qualified M.D. candidate to participate in nephropathology and autopsy services. Please send curriculum vitae; statement of research interests; and names, addresses, telephone numbers, and e-mail addresses of three references to:

William F. Glass II, M.D., Ph.D.
Chair, Department of Pathology and Anatomy
Eastern Virginia Medical School
P.O. Box 1980
Norfolk, VA 23501

Eastern Virginia Medical School is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

The Psychobiology Program of the Emory University Department of Psychology seeks applications for a tenure-track **ASSISTANT PROFESSOR** position beginning in the fall of 2001. The Psychobiology Program focuses on behavior, investigating biological mechanisms ranging from molecular to social. We seek an individual conducting experimental research in behavioral neuroscience, particularly employing genetic or other molecular approaches. Behavioral endpoints must be a central research focus, and individuals exploring behavioral neuroscience in naturalistic contexts are especially encouraged to apply. The successful candidate will have the opportunity to participate in the newly formed Center for Behavioral Neuroscience, which emphasizes neurobiological studies of fear, affiliation, reproduction, and aggression across a consortium of Atlanta area colleges and universities and provides access to six technical cores ranging from molecular and imaging techniques to behavioral technology. Nonhuman primate resources are available to Psychology Department faculty through the Yerkes Regional Primate Research Center of Emory University. The successful candidate will have a strong commitment to teaching at both the graduate and undergraduate levels, will establish an independent research program, and will obtain extramural grant support. A Ph.D. or equivalent is required. Please submit curriculum vitae, supporting materials, and at least three letters of recommendation to: **Chair, Psychobiology Search Committee, Department of Psychology, Emory University, Atlanta, GA 30322.** Review of applications will begin November 1, 2000. Emory University is an Equal Opportunity/Affirmative Action Employer.

MARINE BIOLOGIST

The Institute of Marine Science, University of Alaska, Fairbanks invites applications and nominations for a tenure-track position at the **ASSISTANT, ASSOCIATE** or possibly **PROFESSOR** level. Primary assignment will be to maintain an extramurally funded research program in marine biology using traditional or modern techniques suitable for training graduate students. Research area is open but benthic Biologists/Ecologists are encouraged to apply. Teach core graduate courses: marine biology annually and marine invertebrate field course summers at Kasitsna Bay Laboratory on a rotating or occasional basis. For full job description, see website: www.uaf.edu/uafhr/jobs/Job00F06.html and see website: www.uaf.edu/uafhr/pdf_files/employment_app_0998.pdf for the required one-page application form. For the Institute and Kasitsna Bay Laboratory, use website: www.ims.alaska.edu:8000. Contact: **Dr. Ray Highsmith; Telephone: 907-474-7836; e-mail: highsmith@ims.uaf.edu** for other information. Submit application by October 1, 2000, to: **Yvonne McHenry, Assistant Director UAF Human Resources, University of Alaska Fairbanks, Fairbanks, AK 99775.** Have three letters of recommendation sent promptly to same address. We anticipate filling the position by spring semester but relocation date negotiable. The University of Alaska is an Equal Opportunity/Affirmative Action Employer and Educational Institution.

California Institute of Technology invites applications for a tenure-track position as **ASSISTANT PROFESSOR** of chemical physics/physical chemistry, including multidisciplinary areas with experimental and/or theoretical emphasis. The initial appointment is four years. Exceptionally well-qualified applicants may also be considered at the **ASSOCIATE** or **FULL PROFESSOR** level. Outstanding candidates who have completed their Ph.D.s and have a strong commitment to research and teaching excellence are encouraged to apply. Submit by November 15, 2000: curriculum vitae, publication list, a concise description of proposed research, and three letters of recommendation to: **Professor Ahmed Zewail, Chair, Faculty Search Committee, Arthur Amos Noyes Laboratory of Chemical Physics, 127-72, California Institute of Technology, Pasadena, CA 91125.** The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

**National Institutes of Health National
Institute of Diabetes & Digestive & Kidney
Diseases**

Cell Biologist/Biochemist

The Laboratory of Cell Biochemistry and Biology, NIDDK invites applications for a tenure track position in Cell Biology and Biochemistry. The applicant must have a proven record of accomplishment in an important area of modern Developmental or Cell Biology and will be expected to initiate a high quality independent research program. The position offers unparalleled opportunities for scientific interactions within the well-equipped laboratory and in the larger NIH Cell Biology community. The Laboratory Chief is John A. Hanover.

The Laboratory is located on the main intramural campus of the NIH in Bethesda, MD, a suburb of Washington D. C. Interested applicants should send a Curriculum Vitae, list of publications, copies of major publications, future research plans and three letters of reference to:

Jennifer Lippincott-Schwartz, Chair, Search Committee, Laboratory of Cell Biochemistry and Biology, Bldg. 8, Room 402, NIDDK, NIH, Bethesda, MD 20892.

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Scientist Positions Available

KOSAN

Biosciences, Inc., is a rapidly-growing biotechnology company creating novel molecules and drugs by genetic engineering of biosynthetic pathways. We seek highly motivated, resourceful scientists and senior scientists in the areas indicated below. All positions require a Ph.D. in a relevant field, preferably with post-doctoral or equivalent industrial experience.

Molecular Biology. Experience with the microbiology/genetics of actinomycetes and familiarity with biochemistry/organic chemistry is required. Responsibilities: cloning, characterization and expression of biosynthetic genes. Job code NT/B

Chemistry. Synthetic organic chemistry experience is required. Responsibilities: developing methods for synthesis and modification of natural metabolic products. Job code C

Pharmacological Sciences. 2 yr post-grad experience in receptor pharmacology, signal transduction, immunology, or tumor biology is required. Responsibilities: develop cell-based, biochemical screening and mechanistic assays for projects targeting cancer, inflammatory disease, GI disorders, immunosuppression, and neuroregeneration. Sr. Scientists with 5-8 years industrial experience may also lead interdisciplinary drug discovery teams and manage external collaborations. Job code Ph

Plant Manager. 6-10 years industrial experience in small molecule processing and 3-5 years supervisory experience are required. Responsibilities: implementation of manufacturing processes for small molecules; scale-up of fermentation and purification processing to the 1000 L scale. Job code PS

For more information, visit our website (www.kosan.com). Qualified candidates should mail their resume, a list of references and a cover letter indicating the job code for position of interest to: **Recruitment, Kosan Biosciences, Inc., 3832 Bay Center Place, Hayward, CA 94545. FAX: 510-732-8401.**

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Protein Biochemistry

Assistants/Associate Scientists, BS/MS

Biophysical Chemistry

Investigators, PhD

X-Ray Crystallography

Investigators, PhD

Virology

Investigators, PhD

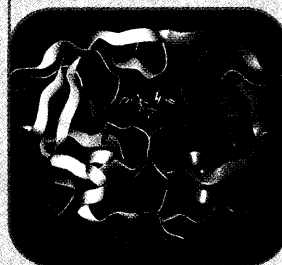
Associate Scientists, BS/MS

Protein Expression

Investigators, PhD

Pharmacokinetics & Drug Metabolism

Investigators, PhD



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POSITIONS OPEN

BIOMOLECULAR CHEMISTRY UNIVERSITY OF WISCONSIN- MADISON

The Department of Biomolecular Chemistry invites applications for a tenure-track **ASSISTANT PROFESSOR** biochemical research and teaching position. We seek a colleague eager to establish a vigorous, independent research program and teach at several levels. For more information, visit our website: www.medsch.wisc.edu/bmolchem/asstprof.html. Send curriculum vitae and two-page research plan and have three reference letters sent before October 1, 2000, to: **Dr. James E. Dahlberg, Search Chair, University of Wisconsin Medical School, 587 MSC, 1300 University Avenue, Madison, WI 53706-1532.** *Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*

CHAIR SEARCH EXTENDED DEPARTMENT OF MICROBIOLOGY AND MOLECULAR CELL SCIENCES

The University of Memphis invites applications and nominations for the position of Chair of the Department of Microbiology and Molecular Cell Sciences. Minimum qualifications include a Ph.D. degree and academic qualifications commensurate with the academic rank of **PROFESSOR** of Microbiology and Molecular Cell Sciences. The candidate's area of research specialization may be in biochemistry, cell biology, developmental biology, microbiology, or molecular biology. We seek an individual with a distinguished record of performance in research, grantsmanship, and teaching, and with potential or demonstrated abilities to lead and manage a newly formed academic department. The candidate will be expected to participate in undergraduate and graduate education and must be committed to excellence in teaching. The applicant should also possess interpersonal and leadership skills in mentoring faculty, directing students, and performing administrative duties. The Department offers a B.S. degree in microbiology and molecular cell sciences and M.S. and Ph.D. degrees in biology with concentrations in biochemistry, microbiology, and molecular cell sciences. The Department's website is <http://www.people.memphis.edu/~microcell/mmcs.html>. Review of applications will begin November 1, 2000, and continue until the position is filled. Applicants should submit their curriculum vitae, a statement addressing administrative philosophy and research interests, and at least three letters of recommendation to: **Search Committee Chair, Department of Microbiology and Molecular Cell Sciences, 201 Life Sciences Building, University of Memphis, Memphis, TN 38152-3560.** *Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION BIOPHYSICAL CHEMISTRY Boston University

The Department of Chemistry invites applications for a tenure-track **ASSISTANT PROFESSORSHIP** in experimental biophysical chemistry. The successful candidate will be expected to establish a vigorous and innovative research program at the interface of physical and biological chemistry and to participate in the undergraduate and graduate teaching activities of the Department. This position is part of a campuswide initiative to develop interdisciplinary research and teaching in key areas of biological importance and will commence September 2001. Candidates should submit curriculum vitae, a description of proposed research, and arrange for three letters of recommendation to be sent to: **Professor Tom Tullius, Chair, Department of Chemistry, Boston University, 590 Commonwealth Avenue, Boston, MA 02215-2521.** The deadline for receipt of applications is October 15, 2000. *Boston University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

TENURE-TRACK POSITIONS DEPARTMENT OF BIOLOGICAL CHEMISTRY

University of Michigan Medical School

The Department of Biological Chemistry at the University of Michigan is soliciting applications for two or more tenure-track positions at the level of **ASSISTANT PROFESSOR**. Exceptionally strong candidates at more advanced levels will also be considered. The search committee will identify outstanding candidates in two broad areas: (1) those applying methods of structural biology and/or enzyme mechanistic studies to important biological problems and (2) those employing creative and integrative biochemical approaches to key problems in cell, molecular, and developmental biology. Such approaches could include enzymology of novel systems; identification of interactions of macromolecules with both macromolecular and small molecule targets; the use of innovative chemistries to elucidate cellular functions; the application of genomic and proteomic approaches to gene and protein expression and function; and integrated use of genetic, molecular, and biochemical methods. Successful candidates will be expected to establish a research program with an international reputation, to train doctoral students and Postdoctoral Fellows and to participate in the teaching activities of the Department. The committee will review applications beginning November 1, 2000. Applicants should submit curriculum vitae, a two-page summary of past research and proposal for future research, and reprints of two or three significant publications and should have three letters of reference forwarded to: **Dennis J. Thiele, Ph.D., Chair of the Search Committee, c/o Ms. Patricia Urban, 5413 Medical Science I, 1300 Catherine Road, Department of Biological Chemistry, University of Michigan Medical School, Ann Arbor, MI 48109-0606.** For additional information, inquiries can be made by e-mail to: patk@umich.edu. *The University is an Affirmative Action/Equal Opportunity Employer.*

NEUROBIOLOGY/PHYSIOLOGY

Duquesne University is seeking an **ASSISTANT PROFESSOR**, tenure track, who uses molecular, cellular, or genetic approaches to explore basic neurobiological or other physiological problems. The successful applicant is expected to establish a vigorous research program involving graduate and undergraduate students and to teach in the area of physiology. We are an interactive faculty, committed to combining externally funded research with excellence in teaching. See website: <http://www.science.duq.edu/snes/biology>. To apply, send a cover letter, curriculum vitae, names and contact information of three references, and statements of research and teaching goals to: **Dr. Kyle W. Selcer, Faculty Search Committee Chair, Department of Biological Sciences, Duquesne University, Pittsburgh, PA 15282.** Review of applications will begin October 4, 2000. *Duquesne University is an Affirmative Action/Equal Opportunity Employer. We strongly encourage applications from women and minorities.*

University of California, Los Angeles. The UCLA Department of Psychology invites applications for a tenure-track position in cognitive neuroscience at the **ASSISTANT PROFESSOR** level. The primary criteria for the appointment are excellence in research and teaching in cognitive neuroscience. Applications are encouraged from candidates who combine strong backgrounds in experimental psychology and human functional brain imaging. Applications are especially encouraged from candidates who bring those techniques to bear on questions concerning learning, memory, and related processes. Submit curriculum vitae; a statement of research and teaching interests, plans and goals; reprints and preprints; and arrange for three letters of recommendation to be sent to: **Cognitive Search Committee, Department of Psychology, Box 951563, UCLA, Los Angeles, CA 90095-1563.** Review of applications will begin December 1, 2000. *UCLA is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR INFECTIOUS DISEASES Washington University School of Medicine

The Division of Infectious Diseases in the Department of Medicine at Washington University School of Medicine solicits applications for tenure-track appointments at the rank of Assistant Professor. We are seeking interactive individuals who will be able to establish a vigorous and outstanding independent basic research program. Our program has a strong emphasis on microbial pathogenesis in prokaryotic, viral, and eukaryotic systems. Recruited faculty will be located contiguous to the Department of Molecular Microbiology and the Division of Pediatric Infectious Diseases; there is tremendous potential for collaborative interactions. Preference will be given to academic physicians who are Board-eligible/Board-certified in infectious diseases. Very attractive start-up packages and protected time arrangements will be offered. Applicants should send detailed curriculum vitae, a few selected reprints, a brief description of current and planned research interests, and arrange to have three letters of reference sent to: **Daniel E. Goldberg, M.D., Ph.D., Codirector, Division of Infectious Diseases, Attention Faculty Search Committee, Washington University School of Medicine, Campus Box 8230, 660 South Euclid Avenue, St. Louis, MO 63110.** *Washington University Medical School is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.*

FACULTY POSITION ORGANIC CHEMISTRY Boston University

The Department of Chemistry at Boston University invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. We seek individuals who will establish a vigorous and innovative research program at the interface of organometallic chemistry, catalysis, and bioorganic chemistry and who will actively participate in undergraduate and graduate teaching activities of the Department. The position is part of a universitywide initiative to develop interdisciplinary research and teaching programs in key areas of biological and medicinal importance and will commence in September 2001. Candidates should submit curriculum vitae, a description of proposed research, and arrange for three letters of recommendation to be sent to: **Professor Tom Tullius, Chair, Department of Chemistry, Boston University, 590 Commonwealth Avenue, Boston, MA 02215-2521.** The deadline for receipt of applications is October 15, 2000. *Boston University is an Equal Opportunity/Affirmative Action Employer.*

The Department of Psychology at the University of Pennsylvania hopes to hire a tenure-track **ASSISTANT PROFESSOR** in the area of animal behavior. We are particularly interested in individuals addressing fundamental issues in the evolution of social behavior, behavioral ecology, cognition, or communication in natural populations of animals. The successful applicant must show evidence of a vigorous research program, promise of leadership in his or her field, and a commitment to both undergraduate and graduate education. Teaching will include contributions to Penn's undergraduate programs in psychology and the biological basis of behavior. Please provide curriculum vitae including a statement of research interests, a description of teaching interests and experience, up to three recent publications, and three letters of reference to: **Animal Behavior Search, Department of Psychology, University of Pennsylvania, 3815 Walnut Street, Philadelphia, PA 19104-6196.** Applications will begin to be reviewed on October 1, 2000. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

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Everything at Eli Lilly and Company begins with the unmet medical needs of people. We provide answers for these complex, difficult problems through the discovery and development of breakthrough medicines. We are strengthening our ability to identify innovative drugs by improving our research and development processes, investing in new research technologies and recruiting new scientists. Building on a portfolio of exciting clinical candidates for the treatment of sepsis and other inflammatory diseases, Lilly Research Laboratories is expanding its Inflammation Research program.

PH.D./M.S./B.S. PHARMACOLOGY

Multiple positions are available for scientists with expertise in animal models of inflammatory disease (arthritis, asthma, allergy, sepsis, ARDS, autoimmunity etc.). Successful candidates will have a working knowledge of the molecular mechanisms of inflammation and previous experience in developing methods or models to evaluate compounds in vivo or ex vivo. **Source Code: ADSCMIF40**

PH.D./M.S./B.S. BIOCHEMISTRY, CELL BIOLOGY OR MOLECULAR BIOLOGY

Multiple positions are available for scientists in the above disciplines with experience in cell signaling, enzymology or receptor biology as they relate to inflammatory pathways. The ideal candidate would have a strong record of innovation and independent scientific investigation in areas such as immunology, cytokine biology or lipid mediators. **Source Code: ADSCMIF41**

Qualified candidates will have the ability to integrate scientific knowledge and experience into research that is relevant to the discovery of novel anti-inflammatory drugs. Scientists will be expected to contribute to ongoing research projects and provide new directions for drug discovery. Candidates must demonstrate independence and creativity balanced with strong interpersonal skills and the ability to contribute to team oriented research. Positions require at least 3 years of experience.

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If you are a highly motivated scientist, who is excited by the challenge of tackling complex research problems, we would like to invite you to submit your resume to:

**Eli Lilly and Company,
US Recruiting and Staffing,
Lilly Corporate Center, DC# 1818,
Indianapolis, IN 46285.**

At Lilly, people are the source of all our abilities, all our successes. Our future depends on our global community of employees whose varied perspectives, experience and training fuel the creativity and the energy to pioneer pharmaceutical innovation. In recognition of our commitment to people, Eli Lilly and Company has been selected as one of Fortune magazine's Best Companies to Work For in America. In addition Lilly has been named three times by Working Mother magazine as one of its 10 Best Companies for Working Mothers. We are an equal opportunity employer.

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FOOD AND DRUG ADMINISTRATION DIRECTOR, OFFICE OF PHARMACEUTICAL SCIENCE

The Food and Drug Administration (FDA) is seeking candidates for the position of Director, Office of Pharmaceutical Science (OPS), Center for Drug Evaluation and Research (CDER). This position will be filled as a Senior Executive Service, Senior Biomedical Research Service, Title 38, Title 42 or Commissioned Corps. The incumbent provides executive leadership to the offices and other staff functions within the OPS. The incumbent oversees all OPS program activities including various aspects of human drug product review, research, and development of scientific standards and assures a scientifically rigorous review process. The incumbent coordinates OPS review functions with the Office of Review Management functions to assure optimal integration of information in approving drugs as safe and effective. This is an interdisciplinary position. Candidates must have a MD degree from an approved medical school, doctorate in pharmaceutical science or a related field (such as Ph.D., Pharm.D., D.P.H.). Candidates must also be widely recognized by peers for scientific leadership and accomplishments. The salary range is \$115,811 to negotiable. The position is located in Rockville, Maryland. Further information regarding qualification requirements and procedures for applying for the position may be obtained from: Ms. Laura Taylor at (301) 827-4178. or from the Office of Personnel Management website at: www.usajobs.opm.gov

Ms. Laura Taylor

**Office of Human Resources and Management Services
Food and Drug Administration
Room 7B-32, HFA-408 - Parklawn Building
5600 Fishers Lane, Rockville, MD 20857**

The FDA is an equal opportunity employer and has a smoke free environment.

Program Analyst

(One-Year Appointment)

The **Howard Hughes Medical Institute**, a leading biomedical research organization and one of the nation's largest private philanthropies, is seeking a **Program Analyst** to join the Office of Grants and Special Programs located at our headquarters in **Chevy Chase, MD**. This position is for a one-year appointment.

In this key role, the successful candidate will develop and implement policies and procedures for the medical student research fellowship program. The Program Analyst will manage annual competitions; coordinate the awards selection process; work closely with applicants, fellows, mentors, and review panel members; assist with database design and implementation; and develop information for the grants web page.

Applicants should have a doctoral degree in a Biological Science and 2 years of work experience in an area of research administration, grants management, or science education; and excellent organizational, communication, and computer skills.

HHMI offers a competitive salary and excellent benefits package. Please send your resume and salary requirements to: **HHMI, Attn: Human Resources, 4000 Jones Bridge Road, Chevy Chase, MD 20815-6789, fax: (301) 215-8940, or visit www.hhmi.org** HHMI is an Equal Opportunity Employer.

HHMI
HOWARD HUGHES MEDICAL INSTITUTE

POSITIONS OPEN

HEAD VETERINARY MOLECULAR BIOLOGY MONTANA STATE UNIVERSITY

Applications and nominations are invited for the Head of Veterinary Molecular Biology (VMB) at Montana State University, Bozeman, Montana. VMB is a research unit focused on disease processes with an emphasis on basic and applied studies of host-pathogen interactions. Academic responsibilities include the animal option of an interdisciplinary biotechnology undergraduate degree program, preveterinary program, and M.S./Ph.D. degrees. Montana State University, a land grant university, is located in a community of 35,000 people with a high quality of life, excellent public schools, and only minutes from outstanding recreational opportunities. Departmental research programs are all funded by extramural grants from the NIH with additional funds from U.S. Department of Agriculture and other competitive sources. Considerable institutional support for hard money research positions, research infrastructure, and state-of-the-art equipment [high-speed FACS (Vantage TurboSort, FASCalibur, FACScan), DNA sequencer, electron microscope, for example] provides a research institute atmosphere conducive to the pursuit of a wide range of biomedical research. Qualifications: Ph.D., Ph.D./D.V.M., M.D., Ph.D./M.D. in a biomolecular discipline; competitive extramurally funded research program in infectious disease, immunology, and/or animal cell and developmental biology; substantial record of publication in high-quality, peer-reviewed journals; experience managing budgets/personnel; demonstrated ability to teach effectively and direct graduate student research; qualifications commensurate with appointment to **ASSOCIATE** or **FULL PROFESSOR**. For complete announcement including job requirements, see website: <http://agadsrv.msu.montana.edu/vmb/jobs.html>. Screening of applications begins October 1, 2000. To apply, send letter of application addressing the qualifications listed above, administrative philosophy, curriculum vitae, selected reprints, a summary of current research, and contact information for five references to:

**Chair, Department Head Search Committee
Veterinary Molecular Biology
MSU-Bozeman, MT 59717-3610
Telephone: 406-994-4705; FAX: 406-994-4303**
Americans With Disabilities Act/Equal Opportunity/Affirmative Action/Veteran's Preference.

BIOCHEMISTRY DARTMOUTH MEDICAL SCHOOL

The Department of Biochemistry at Dartmouth Medical School invites applications for a tenure-track position at the level of **ASSISTANT PROFESSOR**. We are interested in outstanding individuals working in the broad areas of biochemistry, molecular, and cell biology. The Department consists of interactive Scientists with research excellence in a variety of topics and a well-established multidisciplinary graduate student program. The successful candidate is expected to establish an independent research program and to participate in graduate and medical school teaching. Candidates should have a Ph.D. or M.D. degree and relevant postdoctoral training. For more information, visit our website: <http://www.dartmouth.edu/~biochem/>.

Curriculum vitae, statements of research accomplishments and research goals, and three letters of recommendation should be sent to:

**Search Committee
Department of Biochemistry
Dartmouth Medical School
7200 Vail Building
Hanover, NH 03755-3844
E-mail: Hillary.Davis@Dartmouth.edu**

The review of applicants will begin October 15, 2000.

Dartmouth Medical School is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and members of minority groups.

POSITIONS OPEN



FACULTY POSITION DEPARTMENT OF MEDICAL BIOCHEMISTRY AND GENETICS

The Department of Medical Biochemistry and Genetics invites applications for a tenure-track **ASSISTANT PROFESSOR**. Appointment at a higher rank will be considered for qualified candidates. Candidates are expected to maintain a vigorous research program and participate in medical and graduate instruction. Applications from individuals with research interests in any area of biochemistry, molecular biology, or molecular genetics are encouraged. Review of applications will begin October 1, 2000, and continue until the position is filled. Submit curriculum vitae, description of research interests, and have three letters of reference sent to: **Search Committee, Department of Medical Biochemistry and Genetics, 1114 TAMU The Texas A&M University System Health Science Center, College Station, TX 77843-1114. E-mail: mbchjob@medicine.tamu.edu.** Find out more about Texas A&M University at website: www.tamu.edu. Find out more about our Department at website: pauling.tamu.edu. *Equal Opportunity through Affirmative Action.*

ASSISTANT/ASSOCIATE PROFESSOR MICROBIOLOGY

The Department of Molecular and Cell Biology at the University of Connecticut invites applications for a tenure-track faculty position at the **ASSISTANT/ASSOCIATE PROFESSOR** level in the area of microbiology. We seek a Microbiologist conducting research in the general area of host-microbe interactions (including human, animal, and plant pathogens) to complement our research strengths in microbial physiology, plant-microbe interactions, microbial diversity, and the molecular biology and evolution of prokaryotes. The successful applicant is expected to establish a productive research program, teach an undergraduate course in pathogen microbiology, and contribute to graduate courses in microbiology. The starting date is September 2001. Applicants must have postdoctoral experience and an outstanding research record. In 2001, research space in a new building will become available. The Storrs campus, situated in rural northeastern Connecticut between Boston and New York City, is the main campus of the University of Connecticut. Applicants should submit curriculum vitae, a concise statement of research and teaching interests, and arrange for three letters of recommendation to be sent to: **Dr. Kenneth M. Noll, Chair, Microbiology Search Committee, Department of Molecular and Cell Biology, University of Connecticut, 75 North Eagleville Road, U-44, Storrs, CT 06269-3044.** Review of applications will begin after publication of this notice and continue until the position is filled. Information about the research interests of the faculty and our educational programs can be found at the Department's website: <http://www.mcb.uconn.edu>. *We encourage applications from underrepresented groups including minorities, women, and people with disabilities (Search Number 01A68).*

TENURE-TRACK FACULTY APPOINTMENT

Thomas Jefferson University has a tenure-track faculty appointment available at any academic rank. Applications will be accepted until the position is filled. In responding, please send curriculum vitae with a description of plans for an independent research program and request three references to send letters to: **Dr. Gerry Litwack, Chairman, Department of Biochemistry and Molecular Pharmacology, Jefferson Medical College, Thomas Jefferson University, 350 BLBSB, 233 South 10th Street, Philadelphia, PA 19107.** *Thomas Jefferson University is an Equal Opportunity Employer.*

POSITIONS OPEN

DEVELOPMENTAL BIOLOGY

Ursinus College, with grant support from the Howard Hughes Medical Institute (HHMI), is expanding its biology faculty and is actively seeking candidates with innovative ideas for interdisciplinary research, teaching, and curriculum development. The College invites applications for an **ASSISTANT PROFESSOR** position, tenure-track, beginning fall 2001. Responsibilities include teaching courses in developmental biology, genetics, and molecular biology and developing a research program in the molecular genetics of *Caenorhabditis elegans* that involves undergraduates. The successful applicant will also collaborate with colleagues in other science departments to support our new interdisciplinary program in biochemistry and molecular biology. Ph.D. and postdoctoral research and teaching experience required.

The College, located in a suburban setting 25 miles northwest of center city Philadelphia, is a highly selective, nationally ranked, independent coeducational residential liberal arts college of 1,300 students, with a long tradition of strength in science. Laboratory facilities in biology and chemistry, supported by numerous grants from National Science Foundation and HHMI, are outstanding.

Applicants should describe (1) their commitment to and philosophy of undergraduate teaching in a liberal arts setting and (2) a research program that will involve undergraduate collaborators. Send letter of application, curriculum vitae, transcripts, and three letters of recommendation to: **Dr. Robert Dawley, Cochair, Department of Biology, Ursinus College, Collegeville, PA 19426-1000.** Review of applications will begin immediately and continue until the position is filled. *Ursinus College is an Equal Opportunity/Affirmative Action Employer. In keeping with the College's historic commitment to equality, women and minorities are especially encouraged to apply.*

The Department of Chemistry and Biochemistry, University of Maryland at College Park has initiated an expansion of its biochemistry division, concordant with the broader expansion of and investment in the life sciences on the campus. We invite applications for two tenure-track or tenured positions in biochemistry. Candidates will be considered at all levels (**ASSISTANT, ASSOCIATE, or FULL PROFESSOR**). Research interest can be in any area of biochemistry. Candidates will also have the opportunity to participate in the campuswide Molecular and Cell Biology Program, the campus initiative in computational biology, and the recently established Center for Biomolecular Structure and Organization. Submit curriculum vitae, a three-page description of research plans, and arrange for three letters of reference to be sent to: **Chair, Biochemistry Search Committee, Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742-2021.** Applications will be considered until the positions are filled, but for best consideration should be received by October 15, 2000. *University of Maryland at College Park is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and members of minority groups.*

A **POSTDOCTORAL POSITION** is available to study the roles of unconventional myosins and rab GTPases in vesicle transport or the interaction between myosins and proteins that control the assembly state of actin. Model systems used include mouse and *Drosophila*. Training is available in a variety of cellular, molecular, biochemical, and imaging techniques. Interested individuals should send curriculum vitae, a short letter describing their previous research experience, and three letters of reference to: **Dr. John A. Hammer III, Chief, Section on Molecular Cell Biology, Laboratory of Cell Biology, NHLBI, National Institutes of Health, 3 Center Drive MSC 0301, Building 3, Room B1-22, Bethesda, MD 20892-0301.**

LABORATORY DIRECTOR

SAIC Frederick, a division of Science Applications International Corporation, works at the forefront of biomedical research at the National Cancer Institute (NCI) Frederick Cancer Research & Development Center in Frederick, MD. We are a cutting-edge biotechnology organization dedicated to the development of knowledge and tools for the diagnosis, treatment and prevention of human cancer and AIDS.

A challenging opportunity exists for a Director of the High Throughput Genetic Analysis Center to establish and maintain optimal operation of a high-throughput sequencing and genotyping facility. Our center provides automated DNA sequencing, genomic analysis, genotyping, transcriptional analysis and microarray technologies, bioinformatics and other related technologies. Must have a strong background in molecular biology and genetics, with leadership experience in the operation of a high-throughput DNA sequencing, microarray technology or differential gene expression facility. Advanced degree and 5+ years' experience are required. This position is located at our Advanced Technology Center in **Gaithersburg, MD**.

SAIC Frederick offers a full complement of benefits including medical, dental and life insurance, employee ownership and matched 401(k) programs, and an excellent work environment. We require pre-employment drug screening. If you want to be part of an organization that is moving into the future, please send your curriculum vitae, description of research experience and contact information for three references to: e-mail: higdon@mail.ncicrf.gov; FAX: (301) 846-5172.

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SAIC Frederick

A Division of Science Applications
International Corporation

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Project Manager Diagnostics



VICAM manufactures and sells tests used to safeguard the world's food supply. One of VICAM's tests serves as an international "gold standard" for the measurement of the most potent known carcinogen in foods.

Reporting to the Vice President of R & D, the successful candidate will be responsible for overseeing and executing complete product development cycles of kits for detection of analytes relevant to the food industry. Responsibilities include team management, design, execution and interpretation of experiments leading to new products, conduct of international and domestic validation studies, and supervision of daily operations of laboratories. HPLC and immunoassay experience required, with Ph.D. in life sciences or chemistry.

ONLY applicants with record of successful product launches and supervisory experience will be considered. Must be willing and able to interact with customers of varied educational backgrounds and geographical locations.

For consideration, contact VICAM, (Job Code: PMD), 313 Pleasant Street, Watertown, MA 02472, FAX: (617) 923-8055, email: HRD@vicam.com. Principals.

PIONEER HI-BRED INTERNATIONAL, INC.

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Pioneer Hi-Bred Int'l, Inc., is the world leader in the discovery, development and delivery of elite crop genetics.

We are committed to developing and incorporating both time-tested approaches and cutting edge technologies that will continue to make our products superior to any in the industry. Pioneer's research programs, research collaborations, extensive germplasm base and advanced work in genomics are unmatched by our competitors.

Pioneer employs more than 400 scientists, in an environment where individual achievements and team accomplishments come together to provide a rich and rewarding work experience. We strive to give each scientist the opportunity to make a difference...to be inventive and resourceful...to make a significant contribution.

Pioneer Hi-Bred is committed to competitive compensation and excellent annual reward systems plus a comprehensive benefits package including 401(k), tuition reimbursement and relocation assistance. Des Moines is a prospering, growing city with diverse cultural, economic, industrial and consumer resources. It ranks well above the national average in quality of life including affordability and education (www.smartcareermove.com). For confidential consideration, e-mail your resume and a cover letter, indicating job code to: apply@pioneerjobs.com

or send to:

Resume Processing Center
Pioneer Hi-Bred International, Inc.
400 Locust Street, Suite 700
PO Box 14454
Des Moines, Iowa 50306-3454
<http://www.pioneer.com>



Located near Des Moines, Iowa, Pioneer Hi-Bred's ninety-acre campus, including our recently completed laboratory expansion, offers a superb working environment. We currently have the following scientific opportunities available to suitably experienced, highly motivated individuals seeking to make an impact on the future of agriculture.

RESEARCH MANAGER - DNA — Core Facility (Job #RES/RESP112/PSC)

We currently have an opening for a Research Manager in the Genomics group to direct the ongoing activities of the DNA Core Facility. The successful candidate will assume responsibility for research activities including automated DNA sequencing, oligonucleotide synthesis, cDNA library construction/subtraction and yeast 2-hybrid screening. Demonstrated expertise in general molecular biology techniques is essential. This individual will be a key contact with the Research groups in Johnston and Wilmington so excellent oral and written communication skills are necessary. Knowledge of common analytical computer programs and applications is required. Educational requirements include a Ph. D. (or equivalent) in biological sciences and at least 2 years of experience in this area. The ability to work in a team environment to support discovery research efforts is essential.

SENIOR RESEARCH ASSOCIATE — Analytical Biochemistry (Job #RES/RESP155/PSC)

Pioneer's Protein Analysis Group is seeking a qualified and motivated individual to provide analytical support for the evaluation of transgenic plants. The primary responsibility of this position is the application of immunoassays and other biochemical technologies such as ELISA, western blots, TLC's, and enzyme assays. The successful candidate will participate in research of emerging technologies for high throughput and multianalyte protein analysis. Minimum requirements are a M.S. degree plus 4 years appropriate research/supervisory experience, state of the art knowledge of immunoassay (particularly ELISA), protein biochemistry, use of robotic systems to aid in high throughput sample analysis, and the ability to work with limited supervision and to effectively manage others. Excellent communication and interpersonal skills, and knowledge of PC computer software such as Softmax, Excel, Word and PowerPoint are essential.

SENIOR RESEARCH ASSOCIATE — Quality Traits (Job #RES/RESP143/PSC)

We seek a highly motivated individual to join a project focused on transgenic manipulation of cereal grain polysaccharide composition. Duties will center on study and preparation of genetic elements, but also entail evaluation of plants. Qualified candidates will have demonstrated knowledge and skills in gene isolation and characterization, recombinant expression of proteins, and biochemical analysis of plants. Favorable related experiences, although not required, include study of metabolic control, gene expression profiling, molecular plant physiology and/or use of HPLC. Proficiency in use of computers for nucleic acid and data analyses are required, as well as strong organizational and multitasking skills, excellent communication skills, and an ability to work in an interdisciplinary team. Minimum requirements are M.S. degree in molecular biology/biochemistry or related field, and at least 3 years of additional research experience.

POSITIONS OPEN



McGill

TWO ACADEMIC POSITIONS IN BIODIVERSITY

Two tenure-track appointments in the field of biodiversity will be made at the Redpath Museum of McGill University. The appointments will normally be made at the level of **ASSISTANT PROFESSOR**, but exceptional candidates may be considered for appointment at a higher rank. Information about the Museum can be found at **website: <http://www.mcgill.ca/redpath>**.

(1) Fundamental studies in biodiversity: We are seeking someone who is using modern techniques to investigate the mechanisms responsible for the maintenance of diversity and the consequences of its depletion. They may be concerned with the large-scale structure of communities at the level of functional groups or with small-scale structure at the level of species diversity within functional groups. The position is a joint appointment with the Biology Department. The person appointed will contribute to teaching within the biology program and will undertake the curation of a major collection at the Museum. He or she will join a group with strengths in evolutionary ecology, systematics, and conservation biology. Information about the Biology Department can be found at **website: <http://www.mcgill.ca/biology>**.

(2) Applied studies in biodiversity: We are seeking someone who is using modern techniques with a broad taxonomic perspective to investigate the decline of biological diversity, its causes and consequences, and the means for preventing it. The position is a joint appointment at the Redpath Museum and the McGill School of Environment. Information about the MSE can be found at **website: <http://www.mcgill.ca/mse>**. The person appointed would have curatorial responsibilities at the Museum and would administer the Memphremagog Research Station, a McGill property situated on the shore of one of the largest lakes in the region.

Applicants for either position should send complete curriculum vitae, including a statement of research interests and the names of three references, to: **The Director, Redpath Museum, McGill University, 859 Sherbrooke Street West, Montreal, Quebec H3A 2K6 Canada. Telephone: 514-398-4086; FAX: 514-398-3185; e-mail: marie@shared1.lan.mcgill.ca**. The deadline for applications is 15 October 2000. *McGill University is committed to Equity in Employment. In accordance with Canadian immigration requirements, this advertisement is directed in the first instance to Canadian citizens and permanent residents.*

DEPARTMENT OF CELLULAR AND STRUCTURAL BIOLOGY

The University of Texas Health Science Center
at San Antonio

The Department of Cellular and Structural Biology is recruiting faculty for tenure-track positions at the **ASSISTANT, ASSOCIATE, and FULL PROFESSOR** level. The Department is particularly interested in recruiting qualified applicants with interests in cell and molecular biology, aging, cancer, immunology or neurobiology, and who utilize optical imaging approaches as a main research tool. The ability/willingness to teach in one of the Department's professional and/or graduate courses is also required. Interested individuals should submit their curriculum vitae, a statement of research and teaching interests and experience, and three letters of recommendation to: **Dr. Ellen Kraig, Chair, Cellular and Structural Biology Faculty Search Committee, The University of Texas Health Science Center, 7703 Floyd Curl Drive, Mail Code 7762, San Antonio, TX 78229-3900**. Applications received prior to December 1, 2000, will be considered. Further information about the Department and its optical imaging facility can be found at **website: <http://www.uthscsa.edu/csb/csbhome.html>**. *The University of Texas is an Equal Employment Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

EUKARYOTIC MICROBIAL PATHOGENESIS

Department of Microbiology and Immunology
Stanford University School of Medicine

The Department of Microbiology and Immunology invites applicants for a full-time, tenure-track position in the area of eukaryotic microbial pathogenesis, i.e., the study of protozoal and fungal pathogens. Within this broad scope, any aspect will be considered but persons with an interest in the molecular basis of pathogenicity and/or the host immune response are especially encouraged to apply. This position will likely be filled by an individual at the level of **ASSISTANT PROFESSOR**, although applications at the rank of **ASSOCIATE PROFESSOR** or **FULL PROFESSOR** will also be considered. The individual filling this position will play a major role in the graduate training program and teaching programs of the department. The position offers an excellent environment in microbiology, immunology and other basic biomedical sciences, outstanding scientific resources, and a wide variety of potential research collaborations. Applicants are encouraged to submit a curriculum vitae, bibliography, a brief (one to two pages) description of research interests and future plans, and three letters of recommendation by October 15, 2000.

Ms. Susan Singh
Search Committee

Department of Microbiology and Immunology
Stanford University School of Medicine
300 Pasteur Drive, Fairchild D-305
Stanford, CA 94305-5124

Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

FACULTY POSITIONS UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER Molecular Biology

The Department of Molecular Biology at the University of Texas Southwestern Medical Center invites applications for tenure-track faculty positions. We are interested primarily in applications for **ASSISTANT PROFESSOR** positions, but applicants for other ranks will also be considered. We are seeking individuals with innovative research programs in the areas of cell signaling, development, and gene regulation. Successful applicants should be capable of establishing a vigorous independent research program and teaching in one of several active graduate programs. Attractive start-up packages, state-of-the-art core facilities, and new laboratory space are available. Applicants should submit a curriculum vitae containing a summary of past research accomplishments, a statement of future objectives, and names of three references to:

Eric N. Olson, Chairman
Department of Molecular Biology
University of Texas
Southwestern Medical Center at Dallas
5323 Harry Hines Boulevard
Dallas, TX 75390-9148

University of Texas Southwestern is an Equal Opportunity Employer.

ECOLOGY FACULTY POSITION

Ithaca College seeks applicants for tenure-track **ASSISTANT PROFESSOR** position in ecology starting August 1, 2001. Candidate expected to develop active research program with undergraduates, teach general ecology/advanced ecology courses, and contribute to introductory biology and nonscience major courses. Research emphasis on plants; teaching experience desirable. More information at **website: <http://www.ithaca.edu/biology>**. Send curriculum vitae, statements of teaching experience/philosophy, research interests, and three letters of recommendation to: **R. Wodzinski, Search Committee, Biology Department, Ithaca College, Ithaca, NY 14850-7278**. Application deadline: November 1, 2000. *Ithaca College is an Equal Opportunity/Affirmative Action Employer. Members of historically underrepresented groups are encouraged to apply.*

POSITIONS OPEN



NEUROSCIENTIST

TENURE-TRACK FACULTY POSITION

The Department of Pharmacology and Toxicology invites applications for a tenure-track faculty position as **ASSISTANT/ASSOCIATE PROFESSOR**. We seek a Neuroscientist with outstanding research accomplishments and interests complementary to the neuroscience faculty located within the various clinical and basic science departments and institutes of the Medical College of Georgia. Candidates must hold a Ph.D. or M.D./Ph.D. degree and are expected to be ready to apply for or have an independent, extramurally funded research program. Established areas of neuroscience research at the Medical College of Georgia include development, neuron-glia interactions, regulation of synaptic transmission, axonal transport, and neuroendocrinology. Applications from candidates with expertise in axonal guidance, neurogenesis, regeneration, plasticity, model genetic systems, or cognitive neuroscience are encouraged, although all areas of neuroscience will be considered. Applicants are expected to be effective educators and participate in teaching programs in the Schools of Medicine, Allied Health Sciences, and Graduate Studies.

Applicants should send a curriculum vitae, a statement of current and future research plans, a description of teaching experience and the names of three references to: **Dr. Deborah Lewis, Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA 30912-2300**. Application deadline is November 20, 2000.

The Medical College of Georgia is an Affirmative Action/Equal Educational and Employment Opportunity institution and does not discriminate on the basis of race, religion, sex, age, national origin, or disability in employment or provision of services.

SUNY-STONY BROOK COMPUTATIONAL BIOLOGY

One or two **TENURE-TRACK or TENURED POSITIONS** are anticipated in the Department of Applied Mathematics and Statistics at SUNY-Stony Brook for fall 2000 in the area of computational biology, mathematical biology, bioinformatics, computational genomics, computational structural biology, and allied fields. For a tenured position, an established externally funded research program is required. An applicant would be expected to participate in Applied Mathematics' research collaborations in computational biology with scientists at Brookhaven National Laboratory, Cold Spring Harbor Laboratory, and Stony Brook life science departments. Send curriculum vitae and research plan to: **James Glimm, Department of Applied Mathematics and Statistics, SUNY at Stony Brook, Stony Brook, NY 11794-3600**. Please ask three people to send references. **E-mail: glimm@ams.sunysb.edu**. *SUNY/Stony Brook is an Equal Opportunity Educator and Employer.*

BIOCHEMISTRY

TENURE-TRACK FACULTY POSITION

Biochemistry faculty position (any area) available fall 2001 at California State University, Sacramento (CSUS). Ph.D. or completion by time of employment is required with postdoctoral experience preferred and B.A. or B.S. in chemistry. CSUS is primarily an undergraduate institution with a Master's program. Interested persons should send a letter of application, curriculum vitae, statement of teaching philosophy and research plans, academic transcripts, and three letters of reference to: **Professor James Hill, Chairman, Department of Chemistry, California State University, Sacramento, 6000 J Street, Sacramento, CA 95819**. **E-mail: Hilljamesc@csus.edu**. Application deadline: November 3, 2000; position open until filled. *CSUS is an Equal Opportunity/Affirmative Action Employer.*

Opportunities



Endowed Chair in Developmental Biology of the Eye: Goldman Scholar Abrahamson Pediatric Eye Institute and Divisions of Developmental Biology and Ophthalmology

The Abrahamson Pediatric Eye Institute, in cooperation with the Divisions of Developmental Biology and Ophthalmology at Children's Hospital Medical Center in Cincinnati, OH, is recruiting an established scientist with a major research program in the development of the eye and visual pathways using animal models. The successful candidate will assume a generously endowed, named Chair with dual appointments in Ophthalmology and Developmental Biology. Package includes junior faculty recruitment, abundant laboratory space, and serious financial commitment commensurate to the position. The candidate will be expected to maintain externally funded programs, contribute to graduate education in the basic sciences, and mentor young clinician-scientists. A strong collaboration with clinicians is encouraged to facilitate transfer of research developments to patient care.

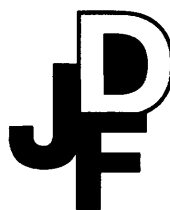
Applicants must have a PhD and/or MD, and have demonstrated scientific leadership and research expertise in basic eye research.

Please submit current curriculum vitae, a one-page summary of research accomplishments and plans, and three letters of support to Drs. West and Wylie, co-chairs, Goldman Scholar Search Committee.

Constance E. West, M.D.
Director, Pediatric Ophthalmology and the Abrahamson Pediatric Eye Institute
 Children's Hospital Medical Center
 3333 Burnet Avenue
 Cincinnati, OH 45229

Christopher C. Wylie, Ph.D.
Director, Division of Developmental Biology
Associate Chair for Basic Sciences
Children's Hospital Research Foundation
 Children's Hospital Medical Center
 3333 Burnet Avenue
 Cincinnati, OH 45229

Visit our website at www.cincinnatichildrens.org
 Children's Hospital Medical Center is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.



The Juvenile Diabetes Foundation International (JDF), the world's leading non-profit, non-governmental funder of diabetes research (up to \$120 million in current fiscal year), is seeking to fill three senior level positions: **Scientific Director; Senior Scientist in Transplantation/Transplantation Immunology; and Senior Scientist in Genetics/Genomics.** JDF also has an opening for the position of **Scientific Program Manager.**

Scientific Director

will play a key role in planning and directing JDF's research program. Assist in identifying future research priorities, oversee evaluation of ongoing JDF-sponsored research, organize the grant review process, consult with governmental, private, academic, and industrial organizations to identify and meet research needs, and interface with JDF volunteers and chapters to convey the Foundation's research program and plans. Seven plus years clinical and/or basic science expertise; M.D., Ph.D. or equivalent degree, strong writing and verbal skills. Must have specialized training or experience in diabetes related research or relevant field, such as immunology, molecular genetics, molecular biology, biochemistry, or complications of diabetes. Experience that includes independent research funding in these areas beneficial. Some travel required.

Position Code SD

Senior Scientist in Transplantation/Transplantation Immunology

will develop, implement, and oversee JDF sponsored research in islet cell transplantation. Help formulate the Foundation's policy and goals in transplantation research; coordinate and evaluate JDF sponsored research initiatives in transplantation in academia, government, and industry; oversee review process for grant applications dealing with clinical trials of islet transplantation; and direct JDF's islet distribution program. Will play a crucial role in guiding the Foundation's efforts to develop a safe and effective means to achieve long-lasting islet transplants without immunosuppression in individuals with diabetes. Minimum three years experience in conducting basic/clinical research relevant to transplantation or transplantation immunology; experience that includes independent research funding in these areas beneficial; M.D., Ph.D. or equivalent degree; strong writing and verbal skills. Some clinical research experience preferred. Some travel required.

Position Code SS

Senior Scientist in Genetics/Genomics

will advise the Foundation regarding strategic planning for the assembly of large patient population DNA collections for the diabetes research community and will develop strategies to facilitate state-of-the-art data mining from these collections. Develop, implement and oversee JDF's support of research in genetics and genomics. Will coordinate and consult diverse JDF sponsored efforts in academia, industry, and government to achieve the Foundation's goal of understanding the genetic factors contributing to the development of diabetes and its complications. Minimum 3 years experience in conducting research in the area of genetics, genomics, or related area; experience that includes independent research funding in these areas beneficial; M.D., Ph.D. or equivalent degree, strong writing and verbal skills. Some travel required.

Position Code SSD

Scientific Program Manager

will play an essential role in carrying out JDF's research grant program, training grant program, and implementing partnerships with governments and industry. Additional responsibilities include helping to determine program priorities and tracking/analyzing/evaluating the Foundation's research activities. Will coordinate committees and research collaborations among institutions. Will help supervise the grant administration process. Ph.D., M.D. or equivalent degree in biological/biomedical sciences, such as molecular biology, genetics, immunology, biochemistry, or related areas. Postdoctoral experience or equivalent preferred. Excellent writing, verbal, and interpersonal skills are essential. Some travel required. **Position Code SPM**

Please submit resume, indicating **Position Code to:**

Juvenile Diabetes Foundation International

Attn: Human Resources-SM

120 Wall Street, New York, NY 10005-4001

Fax: 212-785-9595

EOE M/F/D/V

MANAGER, GROUND-BASED RESEARCH FACILITY

The Atmospheric Technology Division (ATD) of the National Center for Atmospheric Research (NCAR) in Boulder, Colorado, seeks an energetic scientist or engineer to lead ATD's new ground-based systems group. ATD provides advanced observing tools to support national and international research in weather, climate, air chemistry, and geophysical remote sensing. The ground-based systems group develops and operates surface in situ and ground-based remote sensing instrumentation, and often applies technologies derived from ground-based systems to aircraft use. The leader of the ground-based research group will help ATD anticipate and meet future research instrumentation needs and will stimulate and guide instrument developments, oversee planning and operational support for field projects using the ground-based instruments, and manage and support a talented staff of scientists, engineers, technicians, and administrators. ATD's current ground-based systems include multiparameter radars, multiwavelength backscatter lidars, high-resolution wind profilers, and automated surface flux systems. Future plans include a scanning water vapor lidar, a next-generation multisensor dropsonde, incorporation of modern communication and miniaturization technologies into all systems, and development of advanced remote sensing instruments for ATD's new research aircraft.

The ground-based facilities leader must have a Master's (Ph.D. preferred) in physical science or engineering and at least 10 years of experience in using surface or remote sensing instrumentation for atmospheric and related research, or an equivalent combination of education and experience. Candidates must have an understanding of atmospheric observational science, of instrument operations and maintenance, and of field project planning and logistics. The position requires understanding of U.S. national funding agencies and processes and skill in budget and personnel management. Direct experience in designing and developing atmospheric observing systems, especially in situ or remote sensing instrumentation, and experience in the leadership of community service operations are highly desired.

For a complete job description access www.ucar.edu. Initial consideration will be given to applications received prior to October 1, 2000, but applications will be accepted until the position is filled. **To apply online:** <http://recruiter1.webhire.com/ucar.ncar> (source code 0146). **Email** ucar.ncar@rpc.webhire.com, or send a resume to UCAR Job #0146, 3450 Mitchell Lane, Boulder, CO 80301. *UCAR is an Equal Opportunity/Affirmative Action Employer. UCAR is committed to providing full opportunities for women, for minorities, and for people of all countries in the world. UCAR believes the strength of a corporation lies in the diversity of its people and how they can contribute to the success and mission of the organization.*



University Corporation for Atmospheric Research

National Center for Atmospheric Research • UCAR Office of Programs

BIOLOGY CHAIRPERSON

Towson University is seeking a dynamic Ph.D. biologist, with demonstrated leadership qualities, administrative abilities, and distinguished records in undergraduate-graduate teaching and research. Preference will be given to applicants who can enhance departmental activities by promoting external funding and expanding relationships with regional industry, governmental agencies, and educational institutions. Candidates must be eligible for tenure at the rank of associate or full professor. Appointment begins July 1, 2001. The department offers BS and MS degrees, includes 26 full-time faculty and ~600 undergraduate majors. Towson University is a liberal arts based comprehensive university offering bachelor's, master's, and applied doctoral programs, and has an enrollment of ~16,500 students and over 600 FTE faculty. The campus is located in north suburban Baltimore, with easy access to Washington, D.C. Applications include a detailed CV, names, addresses, and telephone numbers of 6 references and a 1 to 2-page statement of the applicant's perception of the role of a departmental chairperson at a public, comprehensive university. Applications must be completed and postmarked by October 16, 2000. A more detailed description of the position and information on the Department of Biological Sciences at Towson University is posted at <http://www.towson.edu/~biology/positions.htm>. Correspondence should be sent to: A. G. Scarbrough, Chair, Search Committee, Department of Biological Sciences, Towson University, 8000 York Road, Towson, Maryland 21252-7097. Direct inquiries to: ascarbrough@towson.edu. *Towson University is an equal opportunity/affirmative action employer and has a strong institutional commitment to diversity. Women, minorities, persons with disabilities, and veterans are encouraged to apply.*

Faculty Search: Environmental and Development Sociology

The Energy and Resources Group (ERG) at the University of California, Berkeley seeks a Ph.D. in sociology, anthropology, geography or related discipline whose emphasis is on the social dimensions of energy, resources and/or the environment to fill a junior faculty, tenure track position starting 2001-02. ERG is a graduate program comprising natural and social scientists engaged in a multidisciplinary program of research, education, and public service on the social, economic, technical, and scientific dimensions of energy, resources, and the environment. The appointee will stay abreast of a broad range of social developments related to the program, undertake specific research (for example, on resource extraction conflicts, social movements, environmental justice, etc.), and seek an integrative perspective. Field research experience and the ability to teach field methods are critical. In addition to the course on research methods, the appointee will provide additional courses complementing her or his research interests, be encouraged to co-teach with faculty in the natural sciences or engineering, and oversee graduate seminars and student-initiated reading groups. The nature of the position and the qualities of the individual selected should lead to substantial public and professional service. A curriculum vitae, a letter articulating the scope of the applicant's interest in and qualifications for this position, and a dossier including three letters of recommendation should be sent to: **Chair of the Social Science Search Committee, Energy and Resources Group, MC #3050, University of California at Berkeley, Berkeley, California 94720-3050.** Deadline for receipt is October 15, 2000. *The University of California is an Equal Opportunity Affirmative Action Employer.*

Myriad Genetics has established itself as a leader in the discovery of human disease genes by using a powerful combination of positional cloning, proteomics, bioinformatics and high-throughput sequencing. A wholly owned subsidiary, Myriad Pharmaceuticals, Inc. has been established to use these discoveries to create novel therapeutic products for the treatment of human diseases.



We are currently seeking talented individuals to fill the following positions:

RESEARCH SCIENTISTS - TECHNOLOGY DEVELOPMENT

Our Technology Development group is seeking 2 Biochemists to be part of the team involved in developing high-throughput nucleic acid analysis techniques. To qualify, you must have a Ph.D. with postdoctoral experience in nucleic acid enzymology, and practical application including PCR, sequencing, genotyping and DNA diagnostic assays. Knowledge of automated DNA sequencing biochemistry and high-throughput processes and the latest DNA analysis techniques is desired.

RESEARCH ASSOCIATES - TECHNOLOGY DEVELOPMENT

In this position, you will be a part of a team that develops high-throughput DNA diagnostic assays. This position requires an MS or BS degree and 2+ years of experience in molecular biology techniques, especially PCR and DNA sequencing.

Myriad offers an attractive compensation package and a stimulating, interactive research environment. Please send your letter of interest and include a complete resume and the names of three professional references to: Human Resources Department, Myriad Genetics, Inc., 320 Wakara Way, Salt Lake City, UT 84108; Fax: 801-584-1144; E-mail: hr@myriad.com



www.myriad.com

Phased Innovation Awards for Technology Development

Applications are solicited for:

Innovative Technologies for the Molecular Analysis of Cancer

The program features:

- Single application for technology research and development phases
- Expedited transition for successful technology research to an expanded development phase
- Flexible budget
- Flexible staging of feasibility and development phases

Molecular analysis tools for the study of cancer model systems, preclinical and clinical samples, and for the use in population or epidemiological research are sought.

Technologies of interest include

those that are suitable for *in vitro*, *in situ*, or *in vivo* (e.g. imaging) analysis of:

- Alterations and instabilities in genomic DNA
- Expression of genes and gene products
- Cellular localization, post-translational modification, and function of proteins
- Major signal transduction networks involved in cancer
- Exogenous infectious agents in cancer



For complete information on this new program: Visit our Web site or call us at 301/496-1550

www.nih.gov/grants/guide/pa-files/PA-99-100.html

Small businesses are encouraged to consider a parallel announcement at: www.nih.gov/grants/guide/pa-files/PA-99-101.html

Phased Technology Application Awards for Pilot Applications of Novel Technologies

Applications are solicited for of:

Applications of Innovative Technologies for the Molecular Analysis of Cancer

The program features:

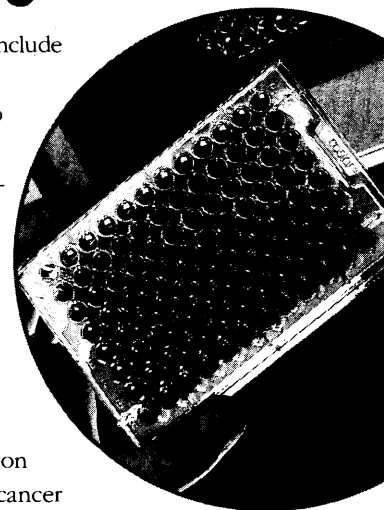
- Single application for technology evaluation and application phases
- Expedited transition for successful technology evaluation to an expanded application phase
- Flexible budget levels
- Flexible staging of evaluation and application phases

Applications of molecular analysis tools for the study of cancer model systems, preclinical and clinical samples, and for the use in population or epidemiological research are sought.

Technologies of interest include

those that are suitable for *in vitro*, *in situ*, or *in vivo* (e.g. imaging) analysis of:

- Alterations and instabilities in genomic DNA
- Expression of genes and gene products
- Cellular localization, post-translational modification, and function of proteins
- Major signal transduction networks involved in cancer
- Exogenous infectious agents in cancer



For complete information on this new program: Visit our Web site or call us at 301/496-1550

www.nih.gov/grants/guide/pa-files/PA-99-102.html

Small businesses are encouraged to consider a parallel announcement at: www.nih.gov/grants/guide/pa-files/PA-99-103.html



**OREGON HEALTH SCIENCES
UNIVERSITY
BIOCHEMISTRY & MOLECULAR
BIOLOGY
ASSISTANT PROFESSOR
BIOLOGICAL CHEMISTRY**

The Department of Biochemistry and Molecular Biology is seeking an outstanding young scientist for a tenure-track appointment at the Assistant Professor level. We are interested in an investigator employing chemistry-based approaches to biological systems, including aspects of enzyme mechanism, protein-protein interactions, etc.

We will offer an attractive start-up package, competitive salary and the opportunity to join an interactive department in a stimulating scientific environment set in one of the most desirable areas in the country. Faculty are expected to establish competitive research programs and assist in graduate and medical school teaching. Candidates with a Ph.D. and several years of post-doctoral experience should apply by November 1, 2000 sending a copy of their curriculum vitae, a description of research plans and interests and the names of three references to:

**Professor Jack H. Kaplan, Ph.D., F.R.S.
Department of Biochemistry and Molecular Biology
Oregon Health Sciences University
3181 S.W. Sam Jackson Park Road L224
Portland, OR 97201-3098
<http://www.ohsu.edu/som-Biochem>**

OHsu is an Affirmative Action/Equal Opportunity Employer

Bioinformatics

Memorial Sloan-Kettering Cancer Center in collaboration with Rockefeller University and Cornell University is accepting applications from qualified candidates to develop a new program in Bioinformatics. This is a unique opportunity to build upon the combined strengths of three premier academic medical institutions located contiguously on the Upper East Side of Manhattan. A generous donation has been received to permit the creation and development of this Program, with the goal of furthering the discipline of Bioinformatics through cutting-edge research, and to develop a core resource to provide collaborative support to the many leading biomedical research laboratories in the three institutions.

The Program will be focused on the development and application of techniques for effectively accessing and utilizing the biomedical information available in human genetic and related databases worldwide. Applicants must be established experts in the field of Bioinformatics, with a substantial track record of scholarly research.

The successful candidate will help recruit additional faculty to build the Program. Although the primary faculty appointment will be at Memorial Sloan-Kettering Cancer Center, the successful candidate will also receive academic appointments at Rockefeller University and Cornell University.

Please submit a curriculum vitae, and the names and addresses of at least 3 references to: **Colin Begg, Ph.D., Chair, Bioinformatics Search Committee, Box 44, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. E-mail: begg@mskcc.org. EOE/AA**



Faculty Positions

Molecular Genetics, Biochemistry and Microbiology University of Cincinnati College of Medicine

The Department of Molecular Genetics, Biochemistry and Microbiology has well established research programs and seeks to attract faculty at the tenure-track Assistant Professor level with research that complements the following areas:

- 1) **Genetics, Biochemistry and Molecular Biology of Signal Transduction and/or Transcription**
- 2) **X-ray Crystallography**
- 3) **Microbiology, Pathogenesis, Immunology, Virology**
- 4) **Structural Biology/Biochemistry**

The 26 full time faculty maintain highly visible research programs in multiple areas including viral and microbial pathogenesis, molecular and cellular immunology, differentiation, developmental and cancer biology, human genetics, structural biology, and membrane transport. Our graduate program includes 44 graduate students and an equal number of postdoctoral fellows training in the department. Our structural biology program has a world-class NMR facility with five instruments, including one of 800 MHz. The College is completing a state of the art BL3 containment facility to work with pathogens. We maintain core facilities for production of transgenic and knockout mice, DNA synthesis and sequencing, gene microarray analysis, proteomics and informatics. These provide a breadth of research opportunities unparalleled at most research institutions.

For further information, please see <http://ucmg65.med.uc.edu/>. Applicants should submit a CV, brief description of research, and the names of three qualified references to: **Jerry B. Lingrel, Ph.D., Professor and Chair, Department of Molecular Genetics, Biochemistry and Microbiology, PO Box 670524, Cincinnati, OH 45267-0524.**

Affirmative Action/Equal Opportunity Employer



The University of North Carolina at Chapel Hill

Faculty Position Biochemistry & Biophysics

The Department of Biochemistry & Biophysics in the School of Medicine invites applications for a tenure-track faculty position at the Assistant Professor level. Our large and well-funded department is scientifically diverse with existing strengths in signal transduction and cell cycle regulation, DNA repair and photobiology, development and activities of the nervous system, membrane processes, mechanistic enzymology, and protein structure/function. The area of research is unspecified; candidates pursuing mechanistic studies in molecular, cellular or structural biology will be considered. The position includes a highly competitive start-up package, quality research space, and access to numerous, state-of-the-art core facilities. We have a successful departmental graduate program, and a strong, interdisciplinary biophysics predoctoral training program is centered in our Department. Our faculty also has access to students through numerous interdepartmental programs.

Chapel Hill, with its college town atmosphere, diverse cultural opportunities, and proximity to both the Blue Ridge Mountains and the Outer Banks, is widely recognized as an especially attractive place in which to live.

Review of applications will begin October 1, 2000, and continue until the position is filled. To apply, please send a CV, statement of research interests, representative publications, and at least three letters of recommendation to: **Dr. David Lee, Chair, Department of Biochemistry & Biophysics, CB#7260, The University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7260**

*Homepage: <http://www.med.unc.edu/wrkunits/2depts/biochem/>
The University of North Carolina is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

Director, Division of Extramural Activities

National Institute of Diabetes and Digestive and Kidney Disease
(NIDDK) National Institutes of Health (NIH)

Incumbent serves as principal advisor to the Institute Director, extramural Division Directors, and NIH extramural leadership regarding the Institute's extramural activities. S/he is responsible for the development, dissemination, and implementation of extramural review and management policies for the Institute. Incumbent is the Institute's principal staff officer for extramural review and management policy and is also responsible for coordinating a broad range of activities and functions to assure sound and efficient management of the Institute's extramural support program.

Incumbent is responsible for the assignment of all grant applications to the appropriate program division. Assists in the resolution of problems of jurisdictional areas of research. Provides guidance on daily operational review and management issues and problems of the research programs. Acts in a consultative capacity to the four Division Directors involving grant administration, including those mechanisms of support, review, award and management. Oversees grants management and research contract program administration.

Applicants must have a Ph.D. or M.D. degree and also must have demonstrated scientific leadership and a broad knowledge of the biomedical research grant process as it pertains to extramural review and administrative management policies. Total salary is competitive and will be commensurate with the experience of the selectee.

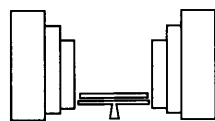
Please submit current curriculum vitae to the attention of:

Mr. L. Earl Laurence
Deputy Director for Management and Operations,
NIDDK and Search Committee Chair
C/o Ms. Thomascene White
Office of Human Resource Management
Building 31, Room 9A30, 31 Center Dr. MSC 2560
Bethesda, Maryland 20892-2560
Tele: (301) 496-4231 / Fax: (301) 402-3951

Applications must be postmarked by
September 25, 2000, and received by close
of business September 29, 2000.



NIH IS AN EQUAL OPPORTUNITY EMPLOYER



The Salk Institute

Faculty Position in AIDS Research

The Salk Institute is seeking outstanding candidates for a faculty position in the Infectious Disease Laboratory at the assistant or associate professor level. Applications are invited from researchers focusing on AIDS-related research, in areas such as viral replication, pathogenesis, and immunology. The level of appointment will be commensurate with experience. Applicants must be legally employable in the United States.

The Salk Institute offers a competitive salary and excellent benefits.

Qualified candidates should submit a curriculum vitae, a summary of research plan, and list of references to:

Search Committee
Infectious Disease Laboratory
Salk Institute for Biological Studies
10010 North Torrey Pines Road
La Jolla, CA 92037

The Salk Institute is an Equal Opportunity Employer

www.salk.edu

You can look toward the future.

Or you can help create it.



At Immunex, we're creating innovative biopharmaceuticals that are giving new hope to people suffering from cancer, inflammatory, and infectious diseases. These advancements are all a product of our environment.

Based in our downtown Seattle, Washington location, you will enjoy all the benefits of this cutting edge city. Beautiful scenery from mountains to water, plus all the amenities of urban living are easily within your grasp.

GENE TRANSFER Research Scientist

We are seeking a research scientist with expertise and experience in gene transfer and expression using viral and/or non-viral gene delivery methods. This position will involve validation of the biological importance of genes by their over-expression or inhibition in a variety of cell types in vitro, and in animal models of human disease. Preference will be given to candidates with proven expertise in one or more of the following areas: antisense technologies, design and implementation of viral vector systems, or use of regulated promoters. Ideal candidates will have familiarity with Immunex's research interests, which encompass cytokine biology pertaining to inflammatory and autoimmune disease, oncology, vascular biology, and bone biology. The minimum requirements are a Ph.D. and three years of post-doctoral to apply. Applicants should have excellent communication skills, be comfortable in a multi-disciplinary environment, and have a proven track record of scientific achievement.

In addition to the tremendously rewarding environment, you will enjoy an exceptional compensation and benefits package. Please submit a resume (Immunex utilizes scanning technology), specifying Job Number 00-0268, to: **Immunex Corporation, 51 University Street, Seattle, WA 98101; e-mail: job-info@immunex.com.**

IMMUNEX

Creating the Future of Medicine™

For more information on Immunex, the career opportunities available, about Seattle, Washington, and to apply online, please visit our Web site at:

www.immunex.com/careers

Immunex is an equal opportunity employer committed to diversity.



University of California
San Diego

Faculty Position Cellular and Molecular Biology

Applications are invited for a position at the Assistant Professor level (Tenure-Track) in the Department of Cellular and Molecular Medicine. Salary commensurate with experience and based upon UC pay scales.

Applicants should have a Ph.D., M.D. or combined M.D./Ph.D. degree and demonstrated ability to conduct a state-of-the-art research program using modern techniques in molecular cell biology to investigate an area of science relevant to human disease. Applicants applying genomics, proteomics and/or bioinformatics approaches are especially encouraged. The applicant is also expected to teach and do research training of medical and graduate students.

Submit curriculum vitae, statement of professional goals, and research interests. Arrange to have at least three referees send letters directly to the address below. Applications should be received before October 15, 2000, to insure full consideration.

Search Committee

c/o Marilyn G. Farquhar, Ph.D., Chair
Department of Cellular and Molecular Medicine
University of California San Diego
9500 Gilman Dr., La Jolla, CA 92093-0651
mfarquhar@ucsd.edu

Univ. of California is an Affirmative Action/Equal Opportunity Employer

FLOW CYTOMETRY Core Facility Director

The Cancer Center of the Albert Einstein College of Medicine is seeking an experienced individual to direct a multi-user, research-driven flow cytometry core facility serving investigators in a large number of fields. The Director will work closely with the Cancer Center leadership in the development of new technologies and applications. The facility is equipped with state-of-the-art multi-parameter cell sorters and analyzers, a magnetic cell sorter and fluorescence microscope.

It is preferred that the applicant for the position of Director will have proven abilities to manage a similar facility and extensive knowledge of flow cytometry and its various applications. Prior experience with Beckton Dickinson instruments with flow applications in research, strongly suggested.

Please send CV and references to: **Dr. Betty Diamond, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Ave, Forch 405, Bronx, NY 10461; Email: diamond@aecom.yu.edu** EOE



**ALBERT EINSTEIN
COLLEGE OF
MEDICINE**

Advancing science, building careers



MOLECULAR EVOLUTION FACULTY POSITIONS

The Department of Biological Sciences at the University of Iowa invites applications for two faculty positions in the area of molecular evolution at the level of Associate Professor. Successful candidates are expected to have an internationally visible research program that uses molecular approaches to study problems in evolution. These problems include, but are not limited to, evolution of developmental processes, genome evolution, evolution of regulatory circuits, evolution at the population level and evolution of host-pathogen interactions in animals and plants. Under the leadership of a new head, the Department is committed to building an internationally recognized program in evolutionary biology and successful candidates will participate in filling additional positions in evolutionary biology in subsequent years.

Candidates are expected to have an established record of funding and publications in leading scientific journals. The successful candidates will occupy completely renovated research facilities and substantial start-packages will be provided. Applicants should forward a curriculum vitae, statement of future research objectives, description of teaching interests, names of three references and selected reprints or preprints to: **Evolution Search Committee, Department of Biological Sciences, University of Iowa, 138 Biology Bldg, Iowa City, Iowa 52242-1324.** Applications will be reviewed as soon as they are received until suitable candidates are identified. *The University of Iowa is an affirmative action/equal opportunity employer. Women and minority candidates are especially encouraged to apply.*

FACULTY POSITIONS UNIVERSITY OF WISCONSIN-MADISON Land Use Analysis, Management, Planning and Policy

Three tenure track faculty positions are open at the ASSISTANT, ASSOCIATE or FULL PROFESSOR level commensurate with credentials and experience. These positions are part of a new, cross-campus and interdisciplinary initiative to strengthen the University as a national and international center of land study, research and outreach. Expertise is being sought in areas including (but not limited to):

- Policy formulation, development and evaluation using tools of economics, finance, law or other relevant social science discipline.
- Assessment methods including demands and impacts with emphasis on social, economic infrastructure, environmental, legal and aesthetic factors.
- Implementation approaches including behavioral, legal and fiscal strategies such as geospatial and monitoring systems.

Tenure home will be in an appropriate college/department: joint appointments are possible and encouraged. A Ph.D. or other terminal degree is required. See our web site (www.cals.wisc.edu/LandUsePositions/) for details. Send curriculum vitae or professional resume and letter detailing interests and capabilities to **Sesquicentennial Land Use Hire Initiative, School of Natural Resources, College of Agricultural and Life Sciences, 140 Agriculture Hall, 1450 Linden Drive, Madison, WI 53706.** Applications must be received by 16 October 2000.

UW-Madison is an Equal Opportunity/Affirmative Action Employer.

DEPUTY DIRECTOR

National Institutes Of Health/National Institute On Aging

POSITION: The NATIONAL INSTITUTE ON AGING (NIA), National Institutes of Health (NIH), is seeking exceptional candidates for the position of Deputy Director. The NIA is one of the world's largest institutions in aging research. NIA conducts, fosters, and supports biomedical, social, and behavioral research and training pertaining to aging processes and common problems of older people. The NIA has a budget of \$685 million and a staff of over 500 and is currently pursuing cutting edge research on Alzheimer's Disease, cardiovascular disease, cellular and molecular biology of aging, long term care, and osteoporosis, as well as a broad range of biologic and behavioral research related to the aging process. This position offers a unique opportunity to play a key role in planning, promoting, and supporting basic and applied research targeted at improving the health of our older population.

CHALLENGE: The Deputy Director serves as a member of the senior leadership of the Institute with responsibility for:

- Planning, formulation, and execution of Institute policies and research programs;
- Development and defense of Institute budget proposals;
- Public and Congressional representation;
- Continuing review and evaluation of ongoing research programs;
- Staff recruitment and development, including equal employment opportunity; and
- Allocation of resources to meet the mission of the NIA.

QUALIFICATIONS REQUIRED:

- Must possess a Ph.D., M.D., or equivalent degree in the biological, clinical, or behavioral sciences;
- Must be an established scientist with considerable experience and expertise in biological, clinical, or behavioral research relevant to aging;
- Must be nationally recognized for scientific achievements by the scientific community and considered an authority in his/her scientific field;
- Must have demonstrated ability to successfully plan, implement, develop, and administer biomedical research programs;

- Must have demonstrated ability in scientific administration and financial management of a research program; and
- Must have administrative skills relevant to staff recruitment and development, including support of diversity in the workplace.

EVALUATION CRITERIA:

- Scientific knowledge and expertise to lead a multi-disciplinary research program of national and international scope in biological, clinical, and behavioral research relevant to aging;
- Skill in developing and implementing new or restructured biological, clinical, or behavioral research programs to meet national health and research needs, and skill in designing policies for the initiation and execution of research; and
- Ability to provide leadership, administration, and broad vision to a large research program with extensive managerial and executive level responsibility (i.e., training, research resources, strategic planning, evaluation, budgeting, and human resource management) in a diverse organization.

SALARY: Compensation package is commensurate with qualifications.

HOW TO APPLY: Please submit current CV, bibliography, and a statement addressing the three evaluation criteria to:
Christine O'Connor, National Institute on Aging, National Institutes of Health, 31 Center Drive, Room 2C02, MSC 2292, Bethesda, MD 20892-2292

APPLICATIONS MUST BE RECEIVED NO LATER THAN OCTOBER 30, 2000

Questions may be addressed to oonnorr@nia.nih.gov or 301-496-5460. Fax is 301-402-3442. Applicants may browse the NIA Home Page at <http://www.nih.gov/nia/> and NIH Home Page at <http://www.nih.gov>. NIH IS AN EQUAL OPPORTUNITY EMPLOYER

New York University

RESEARCH SCIENTIST BRAIN IMAGING CENTER

Applications are invited for the position of Research Scientist in the new Brain Imaging Center at New York University. This center is devoted to research on the brain using Magnetic Resonance Imaging (MRI). It is located in the NYU Faculty of Arts and Science (FAS) at Washington Square. Applicants should have a degree in the physical sciences, and MRI experience; preference will be given to those with experience in functional MRI. The Research Scientist will have major responsibilities in the Center and will collaborate with scientists from various FAS departments (Neural Science, Psychology, Chemistry, Biology, Mathematics) on brain imaging experiments.

The expected starting date is no later than September 1, 2001. Salary will be commensurate with experience. Applications including a CV, list of publications and a statement of research interests should be sent by **November 1, 2000** to: **MRI Search Committee, Center for Neural Science, NYU, 4 Washington Place, New York, NY 10003**. Candidates should arrange to have three letter of reference transmitted directly to the above address.

NYU is an Equal Opportunity/Affirmative Action Employer.

CIMARRON SOFTWARE, INC.

CREATING INNOVATIVE LABORATORY AND ANALYSIS WORKFLOW SYSTEMS FOR GENOMICS AND PROTEOMICS LABORATORIES

Molecular Biology Domain Experts

- Looking to get out of the lab but stay close to the science?
- As a member of the Cimarron team you will work with scientific experts in prominent genomics and proteomics laboratories to design *their* laboratory workflow systems.
- You will stay in contact with exciting leading-edge science by attending scientific conferences and meetings.
- You will fulfill the vital liaison role between our clients and our software engineers.
- You will draw on your own experience and market research to assist in product definition.

Requirements

- MS plus 4 years hands on genomics or proteomics laboratory experience.
- Excellent written and verbal communication skills.
- Good organizational skills and the ability to multitask.
- Ability to work as part of a team as well as independently.
- Extensive travel required.

Great Quality of Life!

Cimarron is located in downtown Salt Lake City, UT close to the theater, ballet, symphony, and great restaurants. We are only minutes away from ski resorts known for having the best snow on earth. Biking on the world famous Slickrock Trail and numerous national parks with breath taking scenery are only hours from Salt Lake City. We are just minutes from hiking in the spectacular Wasatch and Uinta mountains. Affordable housing. Fun and flexible work environment. Great benefits and competitive salary. Email your resume to hr@cimsoft.com or FAX it to 801.521-3111.



CIMARRON

Scientists and Postdoctoral Fellows, GPCR Biology

Tularik Inc. is an established leader in the biopharmaceutical industry dedicated to the discovery and development of novel therapeutic agents that act through the regulation of gene expression. We currently have an exciting opportunity for several talented Scientists and Postdoctoral Fellows to join our G Protein-Coupled Receptors (GPCR) program.

As a member of this new team, you will be involved in all aspects of target identification/characterization, assay development and high throughput screening. Qualified candidates will have demonstrated expertise in biochemistry, molecular biology, cell biology, and molecular pharmacology. These positions require a Ph.D. and Scientists must have at least 3-4 years of postdoctoral training or work experience. Prior experience with GPCR biology and GPCR-related drug discovery is desirable.

In addition to challenging and empowering our employees, Tularik offers experienced leadership, employee stock options and a competitive salary and benefits package. Tularik's collaborative and stimulating research environment recognizes the achievements of individuals and project teams.

If you are interested in joining our R&D team, please send your CV, complete with source code: SA, by e-mail or mail to one of the addresses below.

resume@tularik.com

or

Tularik Inc.
Human Resources
2 Corporate Drive
South San Francisco, CA 94080



Tularik

www.tularik.com

EXPERIMENTAL PATHOLOGISTS

The Department of Pathology is seeking Experimental Pathologists at all faculty levels, with a preference for Physician Scientists with established research programs. Substantial packages, including newly renovated research space, will be provided to start up and sustain the laboratories of successful candidates.

Interested individuals should send a CV, names of three references and a record of grant funding to: **Dr. Michael B. Prystowsky, Chairman, Department of Pathology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Ave, Bronx, NY 10461.** EOE



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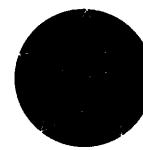
Faculty Position

Department of Biological Sciences

The Department of Biological Sciences at **Dartmouth College** seeks applicants for a tenure track position in the broadly defined area of **Cellular and Molecular Biology**. The successful candidate will be expected to supervise an independent research program that will attract extramural funding and provide research training for graduate and undergraduate students. The suitable applicant will join a group of faculty whose research involves cellular, biochemical and genetic approaches to studying problems in a number of model systems. Candidates should expect to participate in teaching cell biology or biochemistry at the undergraduate and graduate levels. Send a current curriculum vitae, a statement of research and teaching interests, a list of referees (including FAX numbers and e-mail addresses), and arrange to have at least three letters of reference sent under separate cover to: **Search Committee, Department of Biological Sciences, Dartmouth College, Hanover, NH 03755-3576.**

Although materials can be submitted by FAX (603-646-1347), note that the original documents are ultimately required. Application review will begin on October 10, 2000 and continue until the position is filled. For further information, see <http://www.dartmouth.edu/~biology/>.

Women and members of minority groups are strongly encouraged to apply. Dartmouth College is an Equal Opportunity/Affirmative Action Employer.



Texas Biotechnology Corporation, located in the heart of Houston's Texas Medical Center, has an exceptional track record in the discovery and development of small molecule therapeutics for the treatment of vascular diseases. Texas Biotechnology Corporation is seeking several individuals who desire the excitement of a career in pharmaceutical research as members of multidisciplinary discovery teams.

Senior Scientist, New Assay Development

Ph.D./equivalent in Cellular or Molecular Biology and 2+ years of post-graduate experience to join our assay development team. Candidates must have demonstrated expertise in cloning, expression systems, library handling, and multi-well plate assays. Experience in the pharmaceutical industry, particularly with moving novel targets into screening using fluorescence and luminescence methods is highly desired. (Job Code: AR-2001)

Senior Scientist, Cell Adhesion / Signaling

Seeking a highly motivated, creative scientist to develop an integrin signaling project to complement the Company's existing cell adhesion programs. A Ph.D. and a minimum of 2 years postdoctoral experience in immunology, cell biology, biochemistry or a related field is required. Demonstrated experience in cell adhesion or cell signaling highly desirable. (Job Code: PV-2001)

Senior Scientist, Medicinal Chemistry

Ph.D./equivalent in organic chemistry and 0-5 years of relevant postdoc or industrial experience. The successful candidate will have demonstrated an ability to conduct original research in multi-step organic synthesis, including conception of synthetic routes, execution of reactions and isolation, purification, and characterization of products. (Job Code: GH-2001).

Research Associate, Medicinal Chemistry

BS/MS synthetic organic chemist with 2+ years of experience in multi-step synthesis and characterization of small organic compounds. (Job Code: GH-2002).

Texas Biotechnology Corporation is an equal opportunity employer that offers competitive compensation packages and a highly stimulating work environment. If you feel that you have the skill set we seek and are committed to teamwork, please send your resume to **Human Resources, Texas Biotechnology Corporation, 7000 Fannin, Houston, TX 77030.** Please include job code with your resume. To learn more about Texas Biotechnology Corporation, visit our website at www.tbc.com.

Associate Director for AIDS Research, NIH NATIONAL INSTITUTES OF HEALTH

NIH is seeking exceptional candidates for the position of Associate Director for AIDS Research, NIH. This position is the primary Federal official with responsibility for overseeing all AIDS research conducted or supported by the NIH. The incumbent will also serve as Director, Office of AIDS Research, NIH, and be responsible for (1) providing leadership and consultation to NIH management and the scientific community in defining, coordinating and evaluating AIDS research activities at NIH; (2) developing a comprehensive strategic plan establishing objectives, priorities and policy governing the conduct and support of all NIH AIDS-related research activities; (3) developing consolidated budget estimates for presentation directly to the President and Congress; (4) receiving and allocating all appropriated funds; and (5) overseeing the Office of AIDS Research Advisory Council and coordinating committees involved in AIDS activities. The Associate Director reports directly to the Director, NIH. Candidates who wish to continue research while occupying this position would be encouraged to do so.

Applicants must possess an M.D., Ph.D. or equivalent in medical or related health sciences plus senior level medical/health research experience that demonstrates: (1) a high degree of scientific prominence and expertise, and distinguished record of accomplishments, in clinical or laboratory medical/health research, such that the individual can readily command the respect of the national and international research communities and stimulate their interest in the NIH AIDS research agenda; and (2) the ability to direct and manage a medical/health research organization including establishing strategic plans and policies, developing and presenting budgets, evaluating program accomplishments, and building and maintaining a diverse staff. Executive level compensation package is commensurate with qualifications and experience. Please mail or email CV/bibliography and a statement addressing the two qualifications required to: Ms. Susan D. Elder (Susan-Elder@nih.gov), National Institutes of Health, Office of the Director Executive Office, 2 Center Drive, Room 1W15, MSC 0210, Bethesda, MD 20892-0210.

APPLICATIONS MUST BE RECEIVED NO LATER THAN SEPTEMBER 29, 2000.

- Application process questions should be addressed to Susan-Elder@nih.gov or 301-594-8258.
- Fax is 301-402-1368. TDD is 301-402-1970.
- Applicants may visit the NIH Home Page at <http://www.nih.gov> and the Office of AIDS Research Home Page at <http://www.nih.gov/od/oar/index.htm>
- Applicants may view the announcement at <http://www1.od.nih.gov/ohrm/hrinfo/ses/vacancy>

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Tenure-Track Position at NIH

The Laboratory of Biochemistry and Genetics of the National Institute of Diabetes, Digestive and Kidney Diseases (Reed Wickner, Chief) invites applications for a tenure-track position. The position will be the equivalent in status to an Assistant Professor, although there are no courses to teach or grants to write. We seek outstanding applicants interested in developing independent studies of problems of their choosing, using genetics and a model eukaryote. Candidates should have established strong research credentials with a substantial record of quality publications. A two-page statement of research interests and goals, CV, bibliography and three letters of recommendation should be mailed by Oct 15, 2000, directly to:

LBG Search Committee
Laboratory of Biochemistry and Genetics, NIDDK
Building 8, Room 225, NIH
8 Center Dr MSC0830
Bethesda, MD 20892-0830

NIH is an Equal Opportunity Employer



Purdue University Department of Biomedical Engineering is inviting applications for Assistant and Associate Professor tenure-track faculty positions. This newly formed department represents a major investment by Purdue in this growing field at the interface between engineering and life/medical sciences. Candidates must have a Ph.D. degree and a strong background in biomedical engineering that includes considerable depth in both engineering and biology. We are seeking highly qualified, creative individuals with research interests in implantable devices, tissue engineering, biomaterials, nanobiotechnology or other related areas focusing on engineering and science occurring at a cellular or molecular level. The department currently grants master and doctoral degrees. New faculty will have the opportunity to collaborate with numerous faculty involved in biomedical research in the Purdue Schools of Engineering, Science and Veterinary Medicine, and Indiana University Schools of Medicine and Dentistry. Interdisciplinary biomedical engineering efforts are currently supported through a Special Opportunities Award from the Whitaker Foundation and an Integrative Graduate Education and Research Training (IGERT) award from the National Science Foundation. In addition, new faculty will be expected to teach graduate level biomedical engineering courses, develop a strong (externally funded) research program, and help foster departmental growth. Applicants should submit a detailed resume, a description of teaching and research plans, copies of selected publications and a list of four professional references to **Professor George R. Wodicka, Head, Department of Biomedical Engineering, 1296 Potter Engineering Building, Purdue University, West Lafayette, Indiana, 47907-1296**. Screening of candidates will begin October 1, 2000 and will continue until the positions are filled.

*Qualified women and minority candidates are encouraged to apply.
Purdue University is an equal opportunity/affirmative action employer.*



Endowed Chair in Animal Genomics University of Missouri-Columbia

The Department of Animal Sciences at the University of Missouri-Columbia invites applications for the Wurdack Endowed Chair in Animal Genomics. The University recognizes that a more complete understanding of the genomes of agriculturally important species will underpin most advances in agriculture. Future research in animal agriculture, in particular, will take advantage of, and build on, the information available through the human genome program. Comparative genome mapping, the definition of genes and alleles for quantitatively important traits, broad assessments of gene expression, and new gene discovery will play increasingly important roles in animal nutrition, reproduction and health. Candidates for the Endowed Chair should be individuals who are internationally recognized in the genetics of one or more of the food animal species and who have a strong orientation in molecular biology. They should have a record of strong leadership, outstanding research, and excellence in teaching. The precise area of research is less important than the overall strengths of the candidate. The position will be in the Department of Animal Sciences within the College of Agriculture, Food and Natural Resources. There will be opportunities for joint appointments in other departments. Salary, start-up funds, continued support, facilities and opportunities for collaboration will be excellent. A nomination or application should be accompanied by a curriculum vitae, the names of at least five individuals who might act as references, and a letter supporting the nominee or expressing interest in the position. Review of applications will begin on October 16, 2000 and continue until the position is filled. Send applications or nominations to: **Dr. William R. Lamberson, University of Missouri-Columbia, Animal Sciences Department, 159 Animal Sciences Center, Columbia, MO 65211-5300 (telephone: 573/882-8234; fax: 573/884-7827; e-mail: lambersonw@missouri.edu)**. *Faculty and staff in the College of Agriculture, Food and Natural Resources are committed to cultural diversity and nondiscrimination toward all people with regard to race, color, religion, national origin, ancestry, gender, age, veteran status and sexual orientation. The University of Missouri is an Equal Opportunity/Affirmative Action Employer and specifically invites and encourages applications from qualified women and minorities.*

University of Pennsylvania

FACULTY POSITIONS in Cancer Genomics

*Leonard & Madlyn Abramson Family Cancer Research Institute
The University of Pennsylvania Cancer Center*

The University of Pennsylvania seeks outstanding candidates for tenure-track faculty positions in the recently-created Abramson Family Cancer Research Institute. This Institute is an integral part of the University of Pennsylvania Cancer Center and the School of Medicine. Faculty appointments will be in the School of Medicine, at a rank commensurate with experience and qualifications.

Appointments in Cancer Genomics will also be affiliated with Penn's new Genomics Institute, providing colleagues from many schools throughout the university who are engaged in genomics research and education, an interdisciplinary environment for research in this area, and extensive computational and facilities infrastructure.

Candidates with scientific interests and experience in any field of cancer genomics, including bioinformatics and work on model systems, should send their curriculum vitae and the names of three references to:



Barbara L. Weber, M.D.
Cancer Genomics Program Director
Abramson Family
Cancer Research Institute
3rd floor BRB
421 Curie Boulevard
Philadelphia, PA 19104

Affirmative Action / Equal Opportunity Employer

THE UNIVERSITY OF CALIFORNIA AT BERKELEY Department of Molecular and Cell Biology Faculty Position in Cell Biology

The Division of Cell and Developmental Biology is seeking applications for a tenure-track faculty position. We will be focusing primarily on candidates at the Assistant Professor level, but the position is open at any level and a tenure-level appointment is also possible. Ph.D. and/or M.D. scientists should have postdoctoral research experience, as well as a strong interest in undergraduate and graduate teaching. The appointee is expected to join the faculty beginning July 1, 2001 or thereafter.

Any area of cell biology is appropriate, but we are particularly interested in mammalian cell biology and areas of cell biology related to problems of mammalian physiology and disease. Examples of possible research emphases include (but are not limited to) cell-cell and cell-matrix interactions; apoptosis; cell-cycle regulation; epithelial cell function and cell polarity; signal transduction; and tumor biology. The precise area is less important than a demonstrated record of excellence, originality and productivity in research.

Applications should include a curriculum vitae; bibliography; a brief description of research accomplishments; a two-page statement of research objectives and teaching interests; and reprints of the three most significant publications. Arrange to have three letters of reference sent to the address below. Applications must be received by November 15, 2000.

Applications should be sent to
Chair, Cell Biology Search
Department of Molecular and Cell Biology
University of California at Berkeley
142 LSA #3200
Berkeley, CA 94720-3200

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



**Boehringer
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The R&D center of **Boehringer Ingelheim (Canada) Ltd.**, located north of Montréal, in Laval, is a leader in antiviral drug discovery. Our research programs are directed toward the discovery and development of new drugs for the treatment of serious and life threatening viral diseases.

Our Biological Sciences Department is currently expanding its team committed to biopharmaceutical and ADME characterization of drug molecules in lead optimization. We have career opportunities for the following positions:

Research Scientist (Job Code # BS-0056)

Responsibilities:

Design and perform novel and conventional *in vitro* and *in vivo* pharmacokinetic studies.
Develop and maintain state-of-art expertise in DMPK and bioanalytical methods.
Collaborate effectively in a highly interactive and multidisciplinary team-oriented environment.

Minimum qualifications:

Ph.D. or equivalent with two years of postdoctoral research experience and strong knowledge in the field of drug metabolism and pharmacokinetics and/or bioanalytical support (including HPLC and LC-MS) in pharmaceutical research.
Excellent track record in research evident through scientific publications/presentations.
Good communication and interpersonal skills.
Supervisory skills will be an asset.

Research Associate/Assistant (Job Code # BS-0057)

Responsibilities:

Work as part of a team conducting *in vitro* and *in vivo* pharmacokinetic studies.
Develop and implement bioanalytical methodologies.
Report and analyse experimental data in support of study objectives.

Minimum qualifications:

M.Sc./B.Sc. in pharmacology, pharmaceuticals or related discipline.
Experience in performance of *in vitro* or *in vivo* PK studies and/or bioanalytical technologies, including HPLC and LC-MS for quantification of drugs in biological samples.
Good communication and interpersonal skills.

The R&D division of **Boehringer Ingelheim (Canada) Ltd.** provides a stimulating and challenging work environment and competitive compensation and benefits.

Please send your resume to: Human Resources Department
Boehringer Ingelheim (Canada) Ltd.
Research & Development
2100 Cunard Street
Laval (Québec) Canada H7S 2G5
Fax: (450) 682-8434
hr@lav.boehringer-ingelheim.com

**FACULTY POSITIONS
(RANK OPEN)**

**DEPARTMENT OF MATERIALS SCIENCE
AND ENGINEERING**

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

The Department of Materials Science and Engineering at the University of Illinois at Urbana-Champaign invites applications for regular, full time tenure-track or tenured faculty positions in the broad areas of materials research, especially polymers, biomaterials and biomolecular materials, ceramics and metals. To be considered for a tenured position, the applicant must have recognized national and international stature. All applicants are asked to provide a professional curriculum vitae including teaching experience and interests, a list of publications, and an outline of a few pages describing their proposed program of research. Candidates for tenure-track positions should also request that three (3) letters of reference be sent directly to the department. Candidates for tenured positions should include the names, addresses, e-mail and telephone numbers of at least three (3) references.

Applicants must hold an earned doctorate in an appropriate field. Salary and rank will be commensurate with qualifications. The proposed starting date for these positions is January 2001 or later. To ensure full consideration, applications must be received prior to December 1, 2000. Interviews may take place during the application period, but a final decision will not be made until after the deadline for applications. Although rank is open based on qualifications, preference will be given to applicants at the rank of Assistant Professor.

Applications should be addressed to:

Chair, Faculty Search Committee
Department of Materials Science and Engineering
1304 W. Green St.
Urbana, IL 61801
Telephone: (217) 333-1440
Fax: (217) 333-2736
Email: mse@uiuc.edu

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

**SENIOR SCIENTIFIC PROGRAM
AND POLICY ANALYST**

**National Institute of Diabetes and Digestive and Kidney Disease
(NIDDK) National Institutes of Health (NIH)**

The Institute is seeking Ph.D. and/ or M.D. applicants for a key position within its Office of Scientific Program and Policy Analysis. This Office is responsible for guiding the Institute's strategic planning, legislative analysis, and program analysis functions and is located within the Office of the Director. Applicants with post-doctoral experience in planning, analyzing and describing research programs are particularly encouraged to apply, as are individuals seeking an opportunity for career transition from laboratory science to science-policy positions. Ideally, applicants will combine superior technical knowledge of the biomedical sciences—obtained through completion of a doctoral—level degree—with a demonstrated ability to develop a wide range of policy-significant documents for lay audiences. These documents typically convey the short- and long-term objectives of the Institute, current research accomplishments, compelling scientific opportunities and public health needs, strategies for capitalizing on emerging technologies and scientific discoveries, and the impact of biomedical research on understanding, diagnosing, treating and preventing disease. This position requires an ability to analyze operating programs, follow trends, synthesize data, and present the essence of research findings in integrated themes that unite the categorical disease programs of the Institute. Essential to this position is the ability to perceive and convey the importance of biomedical research to human health in global, understandable terms. Productive and collegial interaction is required with scientific program staff at all levels of the Institute and with members of the broad biomedical research community. Total salary is competitive and will be commensurate with the experience of the selectee.

Please submit current curriculum vitae to the attention of:

Ms. Joanna Voight
Office of Human Resource Management
NIDDK/NIH—Building 31, Room 9A30
31 Center Dr. MSC 2560
Bethesda, Maryland 20892-2560

*Applications must be postmarked by
September 25, 2000, and received by
close of business September 29, 2000.*



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POSITIONS OPEN

STRUCTURAL BIOLOGY/BIOCHEMISTRY

Ursinus College, with grant support from the Howard Hughes Medical Institute (HHMI), is expanding its biology faculty and is actively seeking candidates with innovative ideas for interdisciplinary research, teaching, and curriculum development. The College invites applications for an **ASSISTANT PROFESSOR** position, tenure-track, beginning fall 2001. Responsibilities include teaching at the introductory and advanced level and developing a research program that involves undergraduates. The successful applicant will also collaborate with colleagues in other science departments to support our new interdisciplinary program in biochemistry and molecular biology. Ph.D. required; postdoctoral experience desirable.

The College, located in a suburban setting 25 miles northwest of center city Philadelphia, is a highly selective, nationally ranked, independent coeducational residential liberal arts college of 1,300 students, with a long tradition of strength in science. Laboratory facilities in biology and chemistry, supported by numerous grants from National Science Foundation and HHMI, are outstanding.

Applicants should describe (1) their commitment to and philosophy of undergraduate teaching in a liberal arts setting and (2) a research program that will involve undergraduate collaborators. Send letter of application, curriculum vitae, transcripts, and three letters of recommendation to: **Dr. Robert Dawley, Cochair, Department of Biology, Ursinus College, Collegeville, PA 19426-1000.** Review of applications will begin on October 11, 2000, and continue until the position is filled. *Ursinus College is an Equal Opportunity/Affirmative Action Employer. In keeping with the College's historic commitment to equality, women and minorities are especially encouraged to apply.*

TENURE-TRACK ASSISTANT PROFESSOR Medical Center Vanderbilt University

As part of an expansion of the signal transduction program in the Department of Molecular Physiology and Biophysics at the Vanderbilt University School of Medicine, we invite applications for a tenure-track faculty position at the Assistant Professor level. Preference will be given to candidates who address fundamental questions on cell signaling in mammalian cells and whose interests complement those of existing programs. (Visit our website: <http://www.mc.vanderbilt.edu/vumcdeptmpb/>).

Interested applicants should forward curriculum vitae, a short summary of research plans, and three letters of recommendation by November 1, 2000, to:

**Search Committee (c/o Roland Stein, Head)
Department of Molecular Physiology and Biophysics
Vanderbilt University School of Medicine
708 Light Hall
Nashville, TN 37232-0615**

Vanderbilt University is an Affirmative Action/Equal Opportunity Employer committed to increasing the representation of women and minority groups on its faculty.

The Department of Psychology, UCLA, seeks to fill two **TENURE-TRACK ASSISTANT PROFESSORSHIPS** in our learning and/or behavioral neuroscience areas. (In special cases, individuals at the **ASSOCIATE** level could be considered.) Research specialties of particular interest to us are (1) electrophysiology of learning in awake behaving animals, (2) animal cognition, (3) genetic and pharmacological animal models of mental illness, and (4) psychobiology of motivation and emotion. Applicants will be expected to teach both graduate and undergraduate courses in animal learning or behavioral neuroscience. Along with curriculum vitae, at least three letters of recommendation, and a few representative reprints (two copies, please), applicants must submit a brief statement of research and teaching interests indicating their appropriateness for this position. Please send all materials to: **BNS/L&B Search Committee, Department of Psychology, Box 951563, UCLA, Los Angeles, CA 90095-1563.** Review of applications will begin December 1, 2000. *UCLA is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

The Department of Biology at Eastern Michigan University is seeking to fill two tenure-track faculty positions at the rank of **ASSISTANT PROFESSOR**. We seek two plant biologists, with preference given to candidates with expertise in phycoecology, plant development, and/or science education. Teaching responsibilities will include some combination of core biology courses, plant/ecology courses for teachers, and advanced courses in plant biology. Positions require a Ph.D., teaching experience, and productive research. Science education applicants must have evidence of successful K-12 classroom teaching experience. Successful candidates must have a strong commitment to teaching at undergraduate and graduate levels, including involvement of students in ongoing research, and will be expected to develop programs capable of attracting external funding. The Department of Biology has 22 faculty with graduate program concentrations in ecology and organismal biology, molecular and cellular biology, physiology, and general biology. Eastern Michigan University provides modern laboratory facilities, field sites, and a new Terrestrial and Aquatic Ecology research facility with a 3,000 square-foot greenhouse to support research from molecular to ecosystem levels of organization. Additional information is available at website: www.emich.edu/public/biology/bioweb.htm. There are opportunities to interact with the Urban Water Resources Research Consortium, the Kresge Environmental Education Center, NOAA Great Lakes Environmental Research Laboratory, USGS Great Lakes Science Center, and nearby universities.

Submit a letter of interest, curriculum vitae, statement of teaching interests and philosophy, description of research, relevant reprints, and copies of transcripts (unofficial acceptable) to: **Positions Number F0105/F0106, Eastern Michigan University, 202 Bowen, Ypsilanti, MI 48197.** Deadline for receipt of materials is September 22, 2000. For additional information, contact: **Dr. Robert Neely, Biology Department Head; Telephone: 734-487-4242; e-mail: bob.neely@emich.edu** or **Dr. Gary Hannan, Search Committee Chair; Telephone: 734-487-4399; e-mail: bio_hannan@online.emich.edu.** *Eastern Michigan University is an Equal Opportunity Employer. We encourage women and members of minority groups to consider this opportunity and to identify themselves when applying.*

The **PSYCHOLOGY DEPARTMENT AT AMHERST COLLEGE** has a tenure-track opening at the **ASSISTANT PROFESSOR** level beginning July 1, 2001, in the area of physiological psychology/behavioral neuroscience. Responsibilities include teaching two courses per semester, directing senior research projects, developing an active research program, and participating in the college's Neuroscience Program. The successful applicant will be expected to teach physiological psychology with laboratory, a biologically based introductory course (psychology as a natural science), and intermediate courses as well as advanced seminars in specialty areas. Specialty areas of particular interest include psychopharmacology, hormones and behavior, and plasticity. Ph.D. is required, and postdoctoral work plus some teaching experience are expected. The Psychology Department has excellent classroom, office, and laboratory facilities, and start-up funds will be available. Amherst College is a private, coeducational, liberal arts college with approximately 1,600 students and 165 faculty. Located in the Connecticut River Valley of western Massachusetts, Amherst participates with Hampshire, Mount Holyoke, and Smith Colleges and with the University of Massachusetts in the Five-College Consortium. Candidates should submit curriculum vitae, sample preprints/reprints, and a statement of teaching and research interests and should arrange to have three letters of reference sent to: **Chair of the Physiological Search Committee, Department of Psychology, Amherst College, Amherst, MA 01002.** For full consideration submit materials by November 1, 2000. *Amherst College is an Equal Opportunity/Affirmative Action Employer, and encourages women and minorities to apply. The administration, faculty, and student body are committed to attracting talented candidates from groups presently underrepresented on campus.*

POSITIONS OPEN

FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY University of Iowa College of Medicine

The Department of Biochemistry of the University of Iowa seeks highly qualified applicants for one or more tenure-track positions. It is anticipated that these appointments will be made at the **ASSISTANT PROFESSOR** level, although exceptional candidates at any rank will be considered. Salaries are competitive and will depend on qualifications and experience. Support for equipping laboratories and initiating research programs will be excellent. Applicants with research interests in the broad discipline of biochemistry including biophysics, cell biology, computational biology, and molecular biology will be considered. Quality of research (not a specific research area) will be the primary criterion.

All applicants must have a relevant graduate degree (Ph.D. and/or M.D. or equivalent foreign degree) and should have at least two years of productive postdoctoral experience and the potential to initiate and maintain a vigorous research program. The new faculty will also participate in the Departmental teaching programs including the training of graduate students and Postdoctoral Fellows.

Applications should include complete curriculum vitae and a summary of future research plans. Applicants should ask three scientists familiar with their work to write letters of reference. Consideration of completed applications will begin on October 1, 2000. Applications should be sent to: **John E. Donelson, Head, Department of Biochemistry, College of Medicine, University of Iowa, Iowa City, IA 52242-1109. Telephone: 319-335-7934; FAX: 319-335-9570.**

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

Director, mouse transgenics facility: Eastern Virginia Medical School seeks a qualified Ph.D., M.D./Ph.D., or M.D. Scientist to direct and assist with the development of a new mouse transgenics facility. The applicant will also be expected to develop an independent, extramurally funded research program. Faculty appointment will be commensurate with experience at the **ASSISTANT/ASSOCIATE PROFESSOR** level in a basic biomedical science department best suited to the applicant's scientific and professional experience. Additionally, the applicant will be encouraged to participate in collaborative research in one of four interdepartmental research focus groups: cancer, cardiovascular and renal, endocrinology, and neuroscience and aging. Please send curriculum vitae; statement of research interests; and names, addresses, telephone numbers, and e-mail addresses of three references to:

**William F. Glass II, M.D., Ph.D., Chair
Transgenics Search Committee
Eastern Virginia Medical School
P.O. Box 1980
Norfolk, VA 23501**

Eastern Virginia Medical School is an Affirmative Action/Equal Opportunity Employer.

GENETICIST

The Department of Biological Sciences, Goucher College, has a tenure track opening at the **ASSISTANT PROFESSOR** level for a broadly trained geneticist beginning September 2001. Candidates must possess a Ph.D. and a commitment to teaching and research at an undergraduate institution. Postdoctoral and teaching experience are preferred. Responsibilities include teaching intermediate and advanced courses in genetics, participation in the core curriculum at the freshman and sophomore level, and developing an extramurally funded research program which includes undergraduates. Applicants should send a curriculum vitae, summary of teaching philosophy and research interests, and three letters of recommendation to: **Dr. Janet Shambaugh, Department of Biological Sciences, Goucher College, 1021 Dulany Valley Road, Baltimore, MD 21204-2794.** Application deadline is October 15, 2000. *Goucher College is an Equal Opportunity Employer.*



UNIVERSITY OF MICHIGAN BIOLOGICAL SCIENCES SCHOLARS PROGRAM

The University of Michigan Medical School announces the continuation of the Biological Sciences Scholars Program to enhance investigational strength in the life sciences at the University of Michigan.

Now entering its fourth year, this program led to the recruitment of outstanding young scientists in the areas of genetics, microbiology, virology, structural biology, and biochemistry. Individuals recruited will have the following qualifications: PhD, MD, or MD/PhD degrees; two years postdoctoral experience; and evidence of superlative scientific accomplishment and scholarly promise. Successful candidates will be expected to establish a vigorous, externally funded research program and to become leaders in departmental and program activities, including teaching at the medical, graduate, and/or undergraduate levels. Primary college and department affiliation and rank will be determined by the applicant's qualifications. Preference will be given to appointments at the Assistant or Associate Professor levels.

Applicants should send their current curriculum vitae (including bibliography), three letters of support, and a two- to four-page summary of their current research program and future research plans to address below. Applications will be considered on a rolling basis, however candidates are strongly encouraged to submit their applications by November 15, 2000.

Michael A. Marletta, PhD
c/o Office of Research and Graduate Studies
University of Michigan Medical School
4107 Medical Science Building I
Ann Arbor, MI 48109-0624

The University of Michigan Medical School is an Affirmative Action/Equal Opportunity Employer.

Sooner or later, people ask where you work.

One answer never fails to resonate.

The **American Red Cross** is currently seeking a **Scientist I** to join the **Holland Laboratory in Rockville, MD.**

Responsibilities: conduct a variety of research and development activities, provide scientific and technical training, and head projects independently.

Requirements: Ph.D. in Virology, 2-4 years of post-doctoral research training or comparable industrial experience, ability to undertake independent research, published research work, and ability to coordinate efforts of complex internal and external groups.
Some Protein Chemistry experience is preferred.

We offer an excellent benefit and vacation package. Please send resume and salary history to: **Holland Laboratory, American Red Cross, Human Resources (HL-171), 15601 Crabbs Branch Way, Rockville, MD 20855. EOE, M/F/D/V**



**American
Red Cross**

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CHIEF

SPECIAL PATHOGENS BRANCH
Division of Viral and Rickettsial Diseases
National Center for Infectious Diseases
Centers for Disease Control and Prevention

The Centers for Disease Control and Prevention is seeking qualified applicants for Chief of the Special Pathogens Branch (SPB), Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases. The Chief of SPB will provide overall supervision of approximately 50 administrative and technical staff working with a taxonomically diverse group of viral agents (e.g., Filoviruses, Arenaviruses, Bunyaviruses and others) requiring containment and handling within a Biosafety Level 4 (BSL-4) facility. Research in SPB focuses on the diagnosis, epidemiology, pathogenesis, and prevention of disease syndromes associated with these viruses, as well as the molecular characterization of the causative agents. Coordinating responses to outbreaks of disease caused by viruses requiring BSL-4 containment and elucidating transmission cycles of the responsible agents are integral components of the public health and research mission of SPB. Virologists, physicians, or veterinarians with research experience with viral agents requiring BSL-4 containment and experience leading research programs are encouraged to apply.

Qualifications include a doctoral degree, significant scientific accomplishments in one or more areas of relevant research, experience with outbreak investigations or work in developing countries, and experience in developing, directing, and managing a research program. Salary range is \$83,559 to \$157,000 per annum, depending on qualifications.

Further information can be obtained from Dr. James E. Childs, ScD, Chairman, Special Pathogens Branch Chief Search Committee, Mail Stop G13, Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA 30333; Telephone: (404) 639-1075; FAX: (404) 639-4436; or EMAIL: JFC5@CDC.GOV

Interested candidates should send their curriculum vitae in confidence along with the names of four professional references to **Centers for Disease Control and Prevention, Attention: Ms. Janie L. Oddy, Mailstop C19, 1600 Clifton Road, Atlanta, GA 30333** (or by Email to JLO0@CDC.GOV). The deadline for submission of applications is October 1, 2000.

CDC is an Equal Opportunity Employer and provides a smoke-free work environment.

POSITIONS OPEN

Two **ASSISTANT PROFESSORSHIPS**, Department of Chemistry, The University of Montana. The Department of Chemistry invites applications for two tenure-track faculty positions at the level of Assistant Professor. The first of the two positions is targeted to physical chemistry; the area of specialization for the second position is unrestricted. Candidates whose interests complement and enhance our Departmental strengths in biological and environmental chemistry are desired. A Ph.D. in chemistry or a related field is required, as is postdoctoral experience. The successful candidate will be expected to develop externally funded research programs, contribute to lower-division chemistry teaching, and develop upper-division and graduate courses in their specialty areas. It is anticipated that the appointments will be made at the Assistant Professor level, but applications from highly qualified individuals at a more senior level will also be considered.

Applications, including complete curriculum vitae and a full description of research plans, should be sent to: **Nigel D. Priestley, Chair, Search Committee, Department of Chemistry, The University of Montana, Missoula, MT 59812-1656**. Applicants should arrange for three letters of recommendation to be sent to the above address. Information about the Department can be accessed from our website: www.cas.umt.edu/chem. Review of applications will begin on October 15, 2000, and continue until the position is filled. *The University of Montana is an Equal Opportunity/Affirmative Action Employer and encourages applications from women, minorities, veterans, and persons with disabilities. Position eligible for veterans' preference in accordance with state law.*

DEPARTMENT OF CHEMICAL ENGINEERING COLUMBIA UNIVERSITY

The Department of Chemical Engineering announces a tenure-track opening to be filled at the **ASSISTANT or ASSOCIATE PROFESSOR** level by September 2001. A Doctorate in chemical engineering or a related field is required; postdoctoral experience is desirable. Candidates in all research fields will be considered, but special interest will be in the area of interfacial phenomena related to electrochemistry, sensors, and the environment. Successful candidates are expected to develop research programs that build on existing institutional strengths and that are collaborative, innovative, and capable of attracting significant external funding. Candidates should submit a plan of research, a statement of teaching objectives that demonstrates commitment to chemical engineering education, three letters of recommendation, curriculum vitae, and reprints of up to two research papers representing the candidate's principal scientific efforts to date. Reply to: **Search Committee, c/o Professor Koberstein, Chair, Columbia University, 812 S.W. Mudd Building, 500 West 120 Street, New York, NY 10027** by November 1, 2000. *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR EXERCISE/MOVEMENT SCIENCES

Tenure-track position commences August 2001. Qualifications include a Ph.D. (or equivalent) and potential to attract external funding for research. Postdoctoral training and teaching experience are desirable. Scientists investigating areas broadly related to exercise and movement sciences are invited to apply, including neuroscience, integrative or exercise physiology, biomechanics, and anatomy. Duties include teaching at least one course in biomechanics. Review of applications begins October 2000 and continues until the position is filled. Submit a letter of application, curriculum vitae, reprints, five-year research plan, and three letters of reference to: **Dr. Kelly J. Cole, Department of Exercise Science, South 501 FH, The University of Iowa, Iowa City, IA 52242**.

The University of Iowa is an Affirmative Action/Equal Opportunity Employer that especially encourages applications from minorities and women.

POSITIONS OPEN

ASSISTANT PROFESSOR VERTEBRATE MORPHOLOGY/EVOLUTION Department of Biology University of Massachusetts Amherst

The Biology Department at the University of Massachusetts at Amherst invites applications for a tenure-track faculty **ASSISTANT PROFESSORSHIP** in evolutionary morphology. The successful candidate will be expected to develop a vigorous, externally funded research program and have a strong commitment to undergraduate and graduate education. Preference will be given to candidates who will interact with our strong vertebrate evolution group in the Biology Department and in the organismic and evolutionary biology graduate program and contribute to the maintenance and growth of our mammal, bird, reptile and amphibian, or fish collections.

Applicants should send curriculum vitae, statement of research plans and teaching philosophy, and arrange for at least three letters of reference to be sent to: **Dr. Elizabeth Brainerd, Vertebrate Morphology Search, Biology Department, University of Massachusetts, Amherst, MA 01003-5810**. Information about the Biology Department and the Organismic and Evolutionary Biology Graduate Program at UMass is available at website: www.bio.umass.edu. Questions may be sent to e-mail: vertsearch@bio.umass.edu. Review of applications will begin September 26, 2000, and continue until the position is filled.

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

FACULTY POSITION MOLECULAR VIROLOGY Indiana University, Bloomington

The Department of Biology seeks to hire a Molecular Biologist/Biochemist who studies viruses, viral molecules, and/or virus-cell interactions for a tenure-track position at the level of **ASSISTANT PROFESSOR** or above. The successful candidate will join a strong and growing group of molecular scientists at Indiana University. Junior candidates should send curriculum vitae; a statement of past, present, and planned research; representative publications; and arrange to have four letters of reference sent to: **Virology Search Committee, Department of Biology, Indiana University, 1001 East Third Street, Bloomington, IN 47405-3700. FAX: 812-855-6705; e-mail: ckao@bio.indiana.edu**. Senior candidates should send a letter of interest and curriculum vitae. Application review will begin October 15, 2000. For more information about the IU Biology Department, see website: <http://www.bio.indiana.edu>. *We are committed to increasing the representation of women, minorities, and disabled individuals and encourage applications from such candidates. Inquiries from dual-scientific-career couples are welcome.*

Brown University invites applications for a tenure-track position as **ASSISTANT PROFESSOR** of chemistry, Brown University, in organic chemistry or a closely related field. The position will start July 1, 2001. Candidates must have a Ph.D. in organic chemistry, biochemistry, bioorganic chemistry, chemical biology, organic materials science, organometallic chemistry, or a closely related field and a record of successful research in one or more of these areas. A demonstrated ability to teach organic chemistry at the undergraduate level and in appropriate upper-level courses is expected. Postdoctoral experience is desirable. Applicants should submit complete curriculum vitae, including graduate and undergraduate transcripts, publication list, and a statement of research plans and requirements and should have three letters of recommendation sent to: **Professor J. William Suggs, Search Committee, Department of Chemistry, Brown University, Providence, RI 02912**. Review of applications will begin immediately and will continue until the position is filled or closed. *Brown University is an Equal Opportunity/Affirmative Action Employer. Women and candidates who are members of minority groups are especially encouraged to apply.*

POSITIONS OPEN

ASSISTANT PROFESSOR DEPARTMENT OF PHARMACOLOGY AND PHYSIOLOGY University of South Carolina

Tenure-track positions at the **ASSISTANT PROFESSOR** level are available for employment beginning January 1, 2001. The persons selected will be expected to develop independent research programs with external funding and to teach medical and graduate students. Areas of research are open to individuals using modern techniques to investigate pharmacological/physiological problems. It is expected that the individual will have a Ph.D. or M.D. with a minimum of two years of postdoctoral experience. Potential for development and maintenance of an externally funded, independent research program will be evaluated.

The Department consists of 12 full-time faculty and numerous adjunct and joint appointees. The Department is housed in modern facilities along with the other basic science departments of the School of Medicine. Ample opportunities exist for collaboration with other investigators. Interdisciplinary research is encouraged. Review of files will begin October 1, 2000.

Candidates should submit a letter describing professional goals, curriculum vitae, and the names of three references to:

**Dr. Donald O. Allen, Professor and Chair
Department of Pharmacology and Physiology
School of Medicine
University of South Carolina
Columbia, SC 29208**

Website: <http://www.med.sc.edu/96/Facpos.htm>

University of South Carolina is an Affirmative Action/Equal Opportunity Employer.

TENURE-TRACK POSITION AVAILABLE IN HUMAN CANCER GENETICS

Preference will be given to **BASIC SCIENTISTS** working in the following areas: identification and characterization of new human cancer genes and biochemical characterization of proteins encoded by human cancer genes.

The position is in the Laboratory of Immunobiology, Division of Basic Sciences, National Cancer Institute-Frederick Cancer Research and Development Center, Frederick, Maryland. Principal investigators in the laboratory are: **Michael Lerman** (genetics and biochemistry of human lung cancer), **Berton Zbar** (genetics of human kidney cancer), **Stephen Hou** (signal transduction in *Drosophila*), and **Ed Leonard** (inflammation).

The start-up package will include two Postdoctoral Research Fellows, one technician, and ample laboratory space. Deadline for receipt of applications: November 1, 2000.

Applicants should submit curriculum vitae, a statement of research interests and future plans, and three letters of reference to: **Ms. Teri Cecil, Building 578, Room 6, National Cancer Institute-Frederick Cancer Research and Development Center, P.O. Box B, Frederick, MD 21702. Telephone: 301-846-5403; FAX: 301-846-6053.** *The National Cancer Institute is an Equal Opportunity Employer.*

University of California, Los Angeles. The UCLA Department of Psychology invites applications for a tenure-track position in visual perception at the **ASSISTANT PROFESSOR** level. The primary criteria for the appointment are excellence in research and teaching in perception, psychophysical methods, and cognitive science. Applications are encouraged from candidates who combine strong backgrounds in psychophysical and/or computational methods. Submit curriculum vitae; a statement of research and teaching interests, plans and goals; reprints and preprints; and arrange for three letters of recommendation to be sent to: **Vision Search Committee, Department of Psychology, Box 951563, UCLA, Los Angeles, CA 90095-1563**. Review of applications will begin December 1, 2000. *UCLA is an Equal Opportunity/Affirmative Action Employer.*



HEALTH SCIENTIST ADMINISTRATOR

PULMONARY AND CARDIOVASCULAR PROGRAM
National Institute of Environmental Health Sciences

The National Institute of Environmental Health Sciences (NIEHS), located in central North Carolina, is accepting applications for the position of Health Scientist Administrator (Biomedical Sciences). The incumbent will serve as a senior staff scientist and specialist in the Pulmonary and Cardiovascular Toxicology Program within the Institute's Division of Extramural Research and Training. A record of independent pulmonary and cardiovascular related research is expected.

This is a permanent civil service position that will be filled at the GS-14 level, with a salary range of \$70,457 - \$91,589. Requires U.S. citizenship.

Candidates must have completed all requirements for a Ph.D or equivalent degree in a health or health-related field or have a combination of education and experience equivalent to that acquired in meeting requirements for a Ph.D. In addition, candidates must have additional experience that is described in the vacancy announcement (AR-00-1041), which may be obtained by calling 919-541-0218; by writing the

NIEHS Personnel Office,
P.O. Box 12233, MD EC-11,
Research Triangle Park, NC 27709;

or online at www.niehs.nih.gov/omhrmb/vacancy/vacancy.htm

For additional information about the position,
you may call Dr. Michael McClure, 919-541-5327.

APPLICATIONS MUST BE POSTMARKED BY
September 29, 2000

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PRINCIPAL RESEARCH SCIENTIST I

Join a talented group of scientists exploiting yeast as a model genetic organism to address functional genomics problems. In collaboration with Genetics Institute scientists, you will be responsible for functional cloning of genes encoding novel therapeutic targets, as well as using yeast systems to identify natural/surrogate ligands for orphan receptors.

To fully appreciate this opportunity, you must be a yeast geneticist/molecular biologist with a Ph.D. in a relevant discipline; we also require postdoctoral experience, a sound publication record, and 3-10 years' biotechnology or pharmaceutical industry experience. Advanced training in the use of *Saccharomyces cerevisiae* as a model organism is critical, as is a background in biochemical pharmacology and/or functional genomics.

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NeuralStem Biopharmaceuticals is a rapidly emerging company focused on discovery, development, and commercialization of our patented, proprietary CNS stem cell platform technology. From genomics to cellular therapeutics, NeuralStem is developing a new generation of biotherapeutic products and technologies to treat and cure neurodegenerative disorders of the brain and spinal cord. Located in the heart of Maryland's biotechnology corridor, NeuralStem seeks innovative, highly motivated, and dedicated individuals to advance the company's cell and gene therapy, functional genomics, and drug discovery programs. Applicants are sought for the following newly created positions:

Principal Scientist (Gene Discovery Program)

Ph.D., 7+ years' experience in high-throughput gene discovery with experience in identification of candidate gene functions. Incumbent will lead a team in establishing a large-scale novel gene discovery program; discovering utilities of genes with regard to brain functions and diseases; and building a proprietary gene database. Must have demonstrated the ability to lead a productive research group.

Senior Scientist (Gene Discovery Program)

Ph.D., 5+ years' research experience in genomics with expertise in SAGE technique. Incumbent will set up and manage SAGE library construction and sequencing in-house; gather and analyze gene information; and work with other in-house research teams to characterize the function of novel gene products.

Scientist (Stem Cell Biology Program)

Ph.D., 3+ years' experience in the culture and analysis of mammalian stem cells. Incumbent will identify and optimize methods for culturing and manipulating primary neural stem cells and stem cell lines, isolate and expand human neural stem cells, and characterize stem cell populations.

Senior Scientist-Neuropharmacology (Stem Cell Biology Program)

Ph.D., 5+ years' experience in neuropharmacology and assay development. Incumbent will establish *in vitro* models of neurological and psychiatric diseases as well as other live cell-based assays for discovery of therapeutics and genes. Experience in designing biochemical, pharmacological, and/or electrophysiological assays of nerve cell function is a prerequisite. Industry experience is preferred.

We offer a competitive salary, excellent benefits package (including company-paid medical/dental coverage), stock options, 401(k), cafeteria plan, flex schedules, an open work environment, continuing education reimbursement, and career growth opportunities. Send CV and salary history c/o: **HR Concepts, 10024 Stedwick Road, #303 Montgomery Village, MD 20886** E-mail: Clancyk10@aol.com

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POSITIONS OPEN

FACULTY POSITION IN PATHOLOGY

Building on strength in cancer biology, the Department of Pathology and the Cancer Center at the University of Iowa College of Medicine invite applications for a **TENURE-TRACK FACULTY POSITION** in the area of apoptosis. The successful applicant will be expected to implement a strong extramurally funded research program focused on molecular aspects of apoptosis. Preference will be given to those applicants studying epithelial cells and/or cancer biology. Applicants should have an M.D., Ph.D., or equivalent degree; postdoctoral experience; excellent communication skills; and record of productivity in the area of solid tumor immunology. The selected applicant will receive a primary appointment in the Department of Pathology, with opportunities for secondary appointments in other departments and programs. The Cancer Center at the University of Iowa is an NCI-designated cancer center that fosters a collaborative and supportive environment among both basic and clinical scientists. Applications for any rank are welcome. Candidates at the **ASSOCIATE** or **FULL PROFESSOR** level must have an ongoing, extramurally funded program. Salary will be commensurate with qualifications and experience. Applicants should submit curriculum vitae, research plans, and the names of three references to:

Vicki Brown
Department of Pathology
University of Iowa College of Medicine
Iowa City, IA 52242

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

EVOLUTIONARY/ECOLOGICAL GENETICS DEPARTMENT OF BIOLOGY Southwest Texas State University

The Department of Biology invites applications for a tenure-track **ASSISTANT PROFESSOR** effective 1 September 2001 (or sooner). We seek an individual with research emphasis in evolutionary/ecological genetics. The successful applicant will develop a vigorous, externally funded research program involving undergraduate and M.S.-level students. A Ph.D. is required and postdoctoral experience is desired. Teaching responsibilities include the Department's general genetics (for majors) and an upper-division/graduate course in the candidate's area of expertise. Applicants should submit curriculum vitae, copies of up to five publications, statements of teaching and research philosophies, copies of transcripts, and a list of three references (including telephone numbers and e-mail addresses) to: **Francis L. Rose, Chair, Biology Department, Southwest Texas State University, San Marcos, TX 78666.**

Southwest Texas State University, a state university with 21,700 students, is located at the headwaters of the San Marcos River between Austin and San Antonio. The Biology Department consists of 33 faculty, 100 graduate students, and 1,400 undergraduate majors. More can be learned about the Department at **website: <http://www.bio.swt.edu>**. Review of applications begins on 15 October 2000 and will continue until a suitable candidate is found. *Southwest Texas State University is an Affirmative Action/Equal Opportunity Employer and is committed to increasing the number of women and minorities in faculty and administrative positions.*

The Department of Chemistry of the University of Chicago invites applications from outstanding individuals for the position of **ASSISTANT PROFESSOR** of chemistry. This search is in the areas broadly defined as inorganic and organic chemistry. Applicants should submit curriculum vitae, a list of publications, and a succinct outline of their research plans. Candidates should arrange for three letters of recommendation to be sent to: **James R. Norris, Jr., Chairman, Department of Chemistry, The University of Chicago, 5735 South Ellis Avenue, Chicago, IL 60637.** Deadline for application materials is October 31, 2000. *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

THE DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY University of California, Irvine

The Department is soliciting applications for three tenure-track positions at the **ASSISTANT PROFESSOR** level in the areas of ecology, evolutionary biology, and evolutionary or comparative physiology.

Ecology: All areas of research specialization within ecology are welcomed. The successful candidate will be expected to teach undergraduate and graduate courses in ecology. **Evolutionary biology:** Candidates are welcome in all areas of evolutionary biology including those using theoretical, molecular, or experimental approaches. The individual must have the ability to teach evolutionary biology at the undergraduate and graduate level. **Evolutionary or comparative physiology:** Area of research specialization is open, but relevance of research interests to broad evolutionary or ecological issues is important. The successful candidate will be expected to teach in undergraduate courses in animal physiology and graduate courses in evolutionary and comparative physiology.

Further information about the Department can be obtained at **website: <http://ecoevo.bio.uci.edu/>**. By November 1, 2000, please submit curriculum vitae, a description of research interests and teaching interests, relevant publications, and arrange to have three letters of recommendation sent either to the **Ecology, Evolution, or Physiology Search Committee, Department of Ecology and Evolutionary Biology, 321 Steinhaus Hall, University of California, Irvine, CA 92697-2525.**

CELLULAR AND/OR DEVELOPMENTAL BIOLOGIST

The Department of Biology at Wake Forest University is seeking a tenure-track **ASSISTANT PROFESSOR** in the area of cellular and/or developmental biology to begin in August 2001. The successful candidate will be expected to teach an introductory course in cellular and molecular biology; a course in his or her specialty; and to develop an independent research program that involves undergraduate, M.S., and Ph.D. students. The ability to teach genetics will be considered an asset but is not required. For further information, please consult our **website: <http://www.wfu.edu/Academic-departments/Biology/new/index.html>**. Please submit by November 1, 2000: curriculum vitae; statements of research interests and teaching philosophy; up to three representative publications; and the names, addresses, and telephone numbers of three references to: **Dr. James Curran, Department of Biology, P.O. Box 7325, Wake Forest University, Winston-Salem, NC 27109. FAX: 336-758-6008; e-mail: curran@wfu.edu.** *Wake Forest University is an Equal Opportunity Employer and is committed to increasing the diversity of its faculty.*

The Chemistry Department at Albion College invites applications for a **TENURE-TRACK POSITION** in biochemistry to begin August 2001. A Ph.D. is required and postdoctoral experience preferred. The successful candidate must have a strong background in biochemistry, a strong interest in undergraduate teaching, and a commitment to establishing an undergraduate research program. Teaching responsibilities will include biochemistry, a biochemistry laboratory, advanced biochemistry, and participation in the general chemistry program. Albion College is a selective, liberal arts college of approximately 1,500 students, located in south central Michigan within an hour's drive of major universities. Interested candidates should send curriculum vitae, photocopies of transcripts, a brief statement of teaching philosophy, a research proposal, and three letters of recommendation to: **Professor Dennis C. Gaswick, Chemistry Department, Albion College, Albion, MI 49224.** Review of applications will begin October 13, 2000. For additional information, explore Albion College's **website: <http://www.albion.edu>**. *Albion College is an Equal Opportunity Employer committed to diversity as a core institutional value.*

POSITIONS OPEN

DEPARTMENT OF NEUROBIOLOGY, PHARMACOLOGY, AND PHYSIOLOGY CELLULAR/SYSTEMS NEUROBIOLOGY The University of Chicago

The Department of Neurobiology, Pharmacology, and Physiology at the University of Chicago invites applications for tenure-track faculty positions at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. These positions are part of an initiative across several departments to strengthen studies in neurobiology. The successful candidates are expected to establish a research program in cellular or systems neurobiology and to participate in the teaching of neurobiology in appropriate undergraduate, graduate, or medical school courses. Possible areas of research include synaptic transmission, sensory and motor systems, sensory-motor transformations, the central modulation of sensory and motor processing, and information processing by the cerebral cortex. Candidates should send curriculum vitae, research statement, and the addresses of three references to: **Dr. Peggy Mason, Cellular/Systems Neurobiology Search, Department of Neurobiology, Pharmacology, and Physiology, University of Chicago, 947 East 58th Street, MC 0926, Chicago, IL 60637.** Review of applications will begin on November 15, 2000. *The University of Chicago is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

BIOLOGICAL CHEMISTRY EMORY UNIVERSITY Atlanta, Georgia

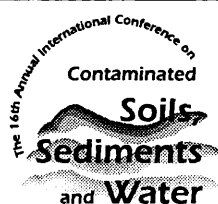
A tenure-track faculty appointment is available at the **ASSISTANT PROFESSOR** level in the broadly defined area of biological chemistry beginning fall 2001. Applications are invited from outstanding candidates with a high potential for creative interdisciplinary research and a commitment to quality teaching at both undergraduate and graduate levels. Research laboratories and office space will be in the new Cherry Logan Emerson Hall, opening fall 2000, providing the successful candidate will ample opportunity to both complement the research interests within Chemistry and establish ties between the biological and biomaterials research across campus. Higher-level appointments may also be considered. Please submit a résumé, list of publications, statement of research plans with estimated start-up costs, and arrange to have three letters of recommendation sent to: **Chair, Biological Faculty Search Committee, Department of Chemistry, 1515 Pierce Drive, Emory University, Atlanta, GA 30322.** For more information, visit the Departmental **website: <http://www.emory.edu/CHEMISTRY>**. Application review will begin October 1, 2000. *Emory University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and members of minority groups.*

EVOLUTIONARY BEHAVIORAL ECOLOGY (RANK OPEN)

The Department of Ecology and Evolution at the University of Chicago has an open position in evolutionary behavioral ecology. The appointment is expected to be at the **JUNIOR LEVEL**, but exceptional senior candidates will also be considered. We are particularly looking for candidates with both strong field and laboratory components to their research. Specific research areas and taxa are open and can include behavioral mechanisms and behavioral genetics with an evolutionary context. The ideal candidate will interact closely with a faculty with strong quantitative and theoretical interests and will be expected to maintain a vigorous research program, train graduate students, and participate in undergraduate teaching.

To apply, please send curriculum vitae, a statement of research interests, reprints, and have three letters of recommendation forwarded by October 1, 2000, to: **Animal Behavior Search Committee, Department of Ecology and Evolution, University of Chicago, 1101 East 57th Street, Chicago, IL 60637.** *The University of Chicago is an Equal Opportunity/Affirmative Action Employer.*

CONFERENCES



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Tenure/Tenure Track Position

National Institute of Allergy and Infectious Diseases (NIAID)

The Laboratory of Intracellular Parasites (LICP), at the National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rocky Mountain Laboratories (RML) is recruiting for a tenure/tenure track scientist to develop an independent research program to explore fundamental molecular and biological processes of *Chlamydia pneumoniae* or *C. trachomatis* host cell interactions. Individuals using contemporary molecular genetics, genomics, and proteomics to investigate host-parasite interactions in the context of persistent infection are especially sought. Individuals will be expected to build a dynamic and productive research group. Applicants who have documented evidence of sustained independent research accomplishments and have an international reputation in their research area may be considered for a tenured position. Salary, start-up funds, and laboratory facilities are competitive with premier academic institutions. The RML is located in the scenic Bitterroot Valley in Hamilton, Montana and is currently undergoing significant scientific expansion and facility renovations. Facilities are available for state-of-the-art genomic analysis including high-throughput DNA sequencing and DNA microarray capabilities, imaging, and biosafety level-3 pathogen related research including a vivarium with non-human primate research capabilities. Applicants can direct programmatic inquiries to Dr. Harlan D. Caldwell, Chief, LICP by email: hcaldwell@niaid.nih.gov.

Application Process: Applicants must be U.S. citizens, resident aliens, or nonresident aliens with or eligible to obtain a valid employment authorized visa. Salary depends on degree and qualifications. Salary up to \$157,000 per annum. Other incentives may be available. A curriculum vitae, bibliography, three letters of reference, a statement of research interests, and selected publications must be submitted by October 1, 2000 to Ms. Kim Tran, Office of Human Resources Management, NIAID, Bldg. 31, Room 7A27, 31 Center Drive, MSC 2520, Bethesda, Maryland, 20892-2520. Applicants interested in applying must submit a complete package and cite vacancy announcement number NIAID-00-149 on the package. All information provided by applicants will remain confidential and will only be viewed by authorized officials of the NIAID.

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Applications are accepted on a continuous basis throughout the year. Postmark deadlines are January 15, April 15 and August 15 for reviews in February, June and October respectively.

Further information and application materials may be obtained from our web site at <http://national-academies.org/rap>. For further assistance contact:

MAIL: Associateship Programs (TJ2114/S4)
NATIONAL RESEARCH COUNCIL
2101 Constitution Avenue NW
Washington, DC 20418

TEL: (202) 334-2760

FAX: (202) 334-2759

EMAIL: rap@nas.edu

Qualified applicants will be reviewed without regard to race, creed, color, age, sex or national origin.

GRANTS



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Announces a Call for Grant Applications
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BMS, as a leader in HIV therapy, recognizes the need to study the pathophysiological mechanisms contributing to HIV-associated lipodystrophy/lipoatrophy and fat redistribution syndrome, and its associated dyslipidemia and metabolic disturbances. Grant proposals examining potential molecular, biochemical, metabolic, immunologic, virologic, and pharmacologic mechanisms will be accepted for review by the BMS Lipodystrophy Basic Science Task Force.

Grant applications can be obtained by contacting:

Yanina Wachtfogel

Chair, BMS Lipodystrophy Basic Science Task Force
Bristol-Myers Squibb Oncology/Immunology
777 Scudders Mill Road
Plainsboro, NJ 08536
(609) 897-3671

POSITIONS OPEN

ICHTHYOLOGIST/FISHERIES MANAGEMENT DEPARTMENT OF BIOLOGY Southwest Texas State University

The Department of Biology invites applications for a tenure-track **ASSOCIATE PROFESSOR** effective 1 September 2001 (or sooner). We seek a broadly trained Ichthyologist with research experience in ecology and applied studies of fishes who will teach an upper-division course in ichthyology and a graduate class in fisheries management. Applicants should submit curriculum vitae, copies of up to five publications, statements of teaching and research philosophies, copies of transcripts, and a list of three references (including telephone numbers and e-mail addresses) to: **Francis L. Rose, Chair, Biology Department, Southwest Texas State University, San Marcos, TX 78666.**

Southwest Texas State University, a state university with 21,700 students, is located at the headwaters of the San Marcos River between Austin and San Antonio. The Biology Department consists of 33 faculty, 100 graduate students, and 1,400 undergraduate majors. More can be learned about the Department at website: <http://www.bio.swt.edu>. Review of applications begins on 15 October 2000 and will continue until a suitable candidate is found. *Southwest Texas State University is an Affirmative Action/Equal Opportunity Employer and is committed to increasing the number of women and minorities in faculty and administrative positions.*

COMPUTATIONAL BIOLOGY

The Department of Biological Sciences at Carnegie Mellon University seeks an outstanding candidate for a **TENURE-TRACK APPOINTMENT** at the intersection of computer science and the biological sciences. Successful candidates will have strong credentials in both areas and will be prepared to take advantage of the University's world-class strength in computer science and the strong tradition of interdisciplinary research in the Department of Biological Sciences. Applicants pursuing purely computational or mixed experimental/computational approaches and those with Doctoral degrees in either computer science or a natural science will be considered. An anticipated area of particular interest is prediction of protein and RNA structure and function. Appointment will be made at a level commensurate with the experience of the applicant. Interested applicants should send curriculum vitae, statement of research interests, and three letters of recommendation to: **Dr. Robert F. Murphy, Department of Biological Sciences, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213.** Review of applications will begin on November 1, 2000, and will continue until a suitable candidate is recruited. *Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer. Our Department is eager to diversify its faculty; we encourage women and minorities to apply.*

The Department of Chemistry and Biochemistry, Southern Illinois University, Carbondale, invites applications and nominations for the position of **CHAIR OF THE DEPARTMENT**. The appointment will be at the rank of **PROFESSOR** with tenure. This search is open to all fields of chemistry. We are seeking a leader with a demonstrable commitment to quality and innovation in teaching and research at both the undergraduate and graduate levels. The candidate should demonstrate a previous commitment to and success at research and is expected to take a strong leadership role in promoting the activities and future directions of the Department. Applications, nominations, or inquiries concerning this position should be sent to: **Chair Search Committee, Department of Chemistry and Biochemistry, Southern Illinois University, Carbondale, IL 62901-4409.** Applications should contain a letter of interest summarizing qualifications; curriculum vitae; and names, addresses, and telephone numbers of at least three references. Applications will be reviewed commencing October 15, 2000, and the search will continue until the position is filled. *Southern Illinois University, Carbondale is an Affirmative Action/EDE.*

POSITIONS OPEN



SENIOR PROGRAM OFFICER CLIMATE CHANGE CAMPAIGN

For more than three decades, World Wildlife Fund (WWF) has led international efforts to save life on earth. We seek a Senior Program Officer to ensure that WWF's Climate Change Campaign is actively engaged in the scientific climate change debate. The successful candidate will have state-of-the-art knowledge of climate science and biodiversity impacts, an understanding of ecosystem and biodiversity science, and coauthored academic papers. The ability to take complex scientific concepts and explain them to popular audiences and policy makers is required. A Master's degree in a relevant field and strong oral, presentation, and written skills are essential.

Please send cover letter and résumé by **FAX to: 202-293-9211** or mail to: **World Wildlife Fund, Human Resources Department, Number 20119W, 1250 24th Street, N.W., Washington, DC 20037.** Website: www.worldwildlife.org. No telephone inquiries, please.

Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

NEUROSCIENTIST WAKE FOREST UNIVERSITY SCHOOL OF MEDICINE

The Department of Neurobiology and Anatomy invites applications for a **TENURE-TRACK FACULTY POSITION**. The level of appointment will be commensurate with experience, and applicants should have a minimum of two years of postdoctoral experience and a strong record of scholarship. The Department is seeking an outstanding individual who is using modern systems, cellular, molecular, or psychophysical approaches in an area that complements that of current faculty. Preference will be given to those applicants with experience/interests in multiple sensory systems and mechanisms of cross-modal integration. The successful candidate will become part of the large and active neuroscience community at the University, which includes the Departmental Program, an interdisciplinary program in neuroscience, as well as a training program focused on multiple sensory systems. For more information on the Department and areas of research emphasis, visit our website: www.wfubmc.edu/nba. Candidates should send curriculum vitae, statement of research interest, and three letters of recommendation to: **Search Committee, Department of Neurobiology and Anatomy, Wake Forest University School of Medicine, Winston-Salem, NC 27157-1010.** *Wake Forest University is an Affirmative Action/Equal Opportunity Employer.*

THE DEPARTMENT OF CHEMISTRY UNIVERSITY OF WISCONSIN-MADISON

Anticipates openings for two or more faculty positions to begin in August 2001. We seek outstanding candidates at the **ASSISTANT PROFESSOR** level (tenure track) in all areas of chemistry. Candidates must have a Ph.D. in chemistry or a related field; postdoctoral experience is desirable. The position requires development of an internationally recognized program of scholarly research as well as excellent teaching at both the undergraduate and graduate level. Please send curriculum vitae and a concise description of research plans and arrange for three letters of recommendation to be sent to: **Professor James C. Weisshaar, Chair of Faculty Search Committee, Department of Chemistry, University of Wisconsin-Madison, Madison, WI 53706-1396.** To guarantee full consideration, all materials must arrive before October 15, 2000. *The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer; applications from qualified women and minority candidates are encouraged. Unless confidentiality is requested in writing, information regarding the identity of the applicant must be released on request. Finalists cannot be guaranteed confidentiality.*

POSITIONS OPEN

CELL OR DEVELOPMENTAL BIOLOGIST

The Department of Zoology, University of Toronto, invites applications for a **TENURE-TRACK/TENURED POSITION** to join our Genetics, Cellular, Molecular, and Developmental Biology group. In addition to developmental biology, our Department has strong research programs in evolution, ecology, and physiology and we encourage interdisciplinary research programs (website: <http://www.zoo.utoronto.ca/>).

The University of Toronto has a vibrant and interactive community of over 35 developmental biology research groups, which provides an academically rich and stimulating research environment. The successful candidate is expected to establish an internationally recognized research program and participate in graduate and undergraduate teaching. Applicants should send curriculum vitae, a one-page statement of future research plans, and arrange for three letters of reference to be sent to: **Professor James Thomson, Chair, Department of Zoology, University of Toronto, Ontario M5S 3G5 Canada.** E-mail: jthomson@zoo.utoronto.ca. We will commence reviewing applications on October 15, 2000. *In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada, but other applications will also be considered. Canadian citizens/permanent residents of Canada will be considered first for this position. The University of Toronto is strongly committed to diversity within its community. The University especially welcomes applications from visible minority group members, women, aboriginal persons, persons with disabilities, and others who may add to the diversity of ideas.*

ASSISTANT/ASSOCIATE/PROFESSOR

Pharmacologist. The Department of Veterinary Physiology, Pharmacology, and Toxicology is seeking a Pharmacologist to fill a anticipated tenure-track position at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. The position requires a D.V.M. or equivalent degree and/or a Ph.D. in pharmacology or a related science. At least two years of postdoctoral research experience is required. The duties and responsibilities of the position include teaching pharmacology to veterinary students in the didactic setting, mentoring graduate students and teaching pharmacology at the graduate level, and developing/maintaining an extramurally funded research program in any area that complements the objectives of the Department. Interested applicants should send a letter of interest, résumé, and three letters of reference to: **Dr. Charles R. Short, Department of Veterinary Physiology, Pharmacology, and Toxicology, Reference Number 009249, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803.** Telephone: 225-346-3202; e-mail: short@mail.vetmed.lsu.edu. Applications will be accepted until October 15, 2000, or until a candidate is selected. *Louisiana State University is an Equal Opportunity Employer.*

FACULTY POSITION WAKSMAN INSTITUTE RUTGERS UNIVERSITY

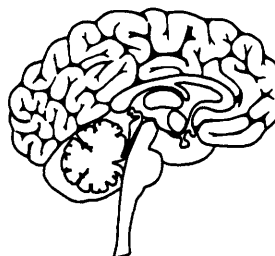
Applications are invited for a position in plant molecular genetics, with focus on plant-pathogen interactions, signal transduction, or other cutting-edge areas of plant sciences. The appointment can be made at the academic rank of **ASSISTANT PROFESSOR** (tenure track) or above (tenured). The applicant is expected to maintain a successful, externally funded research program and to have an interest in teaching at the undergraduate and graduate levels. Applicants should send curriculum vitae, list of publications, a summary of research plans, and arrange that three confidential letters of reference be sent to: **Chair, Search Committee, Waksman Institute, Rutgers University, 190 Frelinghuysen Road, Piscataway, NJ 08854-8020.** The committee will begin its review of applications December 1, 2000, although applications will be accepted and reviewed until the position is filled. Starting date is September 1, 2001. *Rutgers University is an Equal Opportunity Employer.*

REQUEST FOR APPLICATIONS AVAILABLE

Philip Morris Incorporated announces the availability of its 2000 Request for Applications booklet for the Philip Morris External Research Program. The broad range of research interests includes the following scientific areas: Exposure/Biomarkers/Dosimetry, Epidemiological Research, Clinical and Model Systems Research, and Tobacco Smoke and Smoking Behavior. Applications must be received by November 1, 2000.

For more information or a copy of the Request for Applications booklet, please call or write:

Research Management Group
Attn: Research Manager
1099 Winterson Road, Suite 280
Linthicum Heights, Maryland USA 21090
Telephone: (410) 684-3782
Fax: (410) 684-3729
Email: rmgroup2000@aol.com



National NeuroAIDS Tissue Consortium



The National NeuroAIDS Tissue Consortium (NNTC) is now soliciting requests from qualified investigators for tissue specimens for research projects in NeuroAIDS. Requests can be made for the central and peripheral nervous tissues, cerebrospinal fluid and blood collected from HIV infected donors. Tissue samples are banked from donors for whom comprehensive neuromedical and neuropsychiatric data were gathered antemortem.

The NNTC is a national research resource and is supported by the National Institute of Mental Health (NIMH), National Institute of Neurological Disorders and Stroke (NINDS) and National Institute on Drug Abuse (NIDA). The Consortium now includes four specialized brain banks in Los Angeles (VAMC-West Los Angeles, Elyse Singer, MD, Director), New York (Mount Sinai Medical Center, Susan Morgello, MD, Director), Galveston (University of Texas, Medical Branch, Benjamin Gelman, MD, Ph.D., Director) and San Diego (University of California-San Diego, Igor Grant, MD, Director).

Inquiries can be directed to the National Coordinating Office (NCO) for the NNTC (Piotr B. Kozlowski, MD, Ph.D., Director, NNTC NCO, 1050 Forest Hill Road, Staten Island, NY 10314, E-mail: pbk@hivbrainbanks.org or pbk@nntc.org; Phone: 1-800-510-1678 or 718-494-5161, FAX: 718-494-5347).
 Website: <http://www.hivbrainbanks.org>.

THE NATIONAL ACADEMIES

National Academy of Sciences
 National Academy of Engineering
 Institute of Medicine
 National Research Council

Advisers to the Nation on Science, Engineering, and Medicine

Christine Mirzayan Internship Program

The Christine Mirzayan Internship Program of the National Academies is designed to engage graduate and postdoctoral science, engineering, medical, veterinary, business, and law students in science and technology policy and to familiarize them with the interactions between science, technology, and government. As a result, students develop essential skills different from those attained in academia and make the transition from being a graduate student to a professional.

For the year 2001, the internship program will comprise two sessions: January 16 through April 6 (12 weeks) and June 4 through August 10 (10 weeks).

To apply, candidates should submit the application and one letter of reference, both available on-line at national-academies.org/internship.

The deadline for receipt of materials is November 1 for the January 2001 program and March 1 for the June 2001 program.

Details are on our website:
national-academies.org/internship

Additional questions should be directed to:
internship@nas.edu



INTERN WITH EINSTEIN

NOTICE: RAPID ACCESS TO PREVENTIVE INTERVENTION DEVELOPMENT — "RAPID"

National Cancer Institute

The National Cancer Institute announces the ongoing initiative: Rapid Access to Preventive Intervention Development (RAPID). RAPID will make available to academic investigators the preclinical and early clinical drug development contract resources of NCI's Division of Cancer Prevention. The goal of RAPID is the rapid movement of novel molecules and concepts from the laboratory to the clinic for clinical trials of efficacy. RAPID will assist investigators who submit successful requests by providing any (or all) of the pre-clinical and phase 1 clinical developmental requirements for phase 2 clinical efficacy trials. These include, for example, preclinical pharmacology, toxicology, and efficacy studies; bulk supply, GMP manufacturing, and formulation; and regulatory and IND support and phase 1 clinical studies. Suitable types of agents for RAPID may range from single chemical or biological entities to defined complex mixtures with the potential to prevent, reverse, or delay carcinogenesis. For more detailed information, visit the web site: <http://dcp.nci.nih.gov/CB/>

Requests for RAPID resources are to be submitted as described in the web site. Written requests will be evaluated by a specially constituted RAPID panel, consisting of selected NCI staff and outside experts from academia and industry. Requests must be received on or before November 21, 2000. Applications should be submitted directly to the office listed below. Inquiries are encouraged, and the opportunity to clarify issues or questions is welcome. This notice has also been published in the NIH Guide. Please contact:

RAPID
James A. Crowell, Ph.D.
Division of Cancer Prevention, NCI
Executive Plaza North, Suite 201
6130 Executive Blvd.
Bethesda, MD 20892
Rockville, MD 20852 (for express/courier service)
telephone (301) 594-0459
fax (301) 402-0553, (301) 594-2943
email: jc94h@nih.gov

POSITIONS OPEN

The Applied Science Department of the College of William and Mary invites applications for two positions at the **ASSISTANT PROFESSOR** level in biomedical engineering, biomaterials, and/or a related field emphasizing either computational or experimental tools. An offer at the **ASSOCIATE** level may be made for exceptionally strong qualifications. The new faculty members will be asked to contribute significantly to leadership in the effort of the Department and the College to strengthen life sciences activities. Further, they will be strongly encouraged to form collaborations with other William and Mary members and with external institutions as appropriate. Excellence and high commitment in the teaching of undergraduate and graduate students are expected of all faculty at the College. Candidates at the Associate level must show an established, successful research program; excellence in teaching; effectiveness in forming collaborations; and evidence of national or international prominence in the field. The Applied Science Department occupies facilities on William and Mary's main campus in Williamsburg and at the Applied Research Center at Jefferson Laboratory in nearby Newport News. Candidates should submit complete curriculum vitae, copies of no more than five refereed publications in the above areas, and have at least three letters of recommendation submitted on their behalf to: **New Faculty Search, Department of Applied Science, The College of William and Mary, P.O. Box 8795, Williamsburg, VA 23187-8795**. Review of materials is expected to begin about January 1, 2001, and continue until the positions are filled. *The College is an Equal Employment Opportunity/Affirmative Action Employer.*

TERRESTRIAL VERTEBRATE ZOOLOGIST

The Biology Department at Gustavus Adolphus College invites applications for a tenure-track position as **ASSISTANT PROFESSOR** starting September 1, 2001. A Ph.D. is preferred; demonstrated teaching ability and postdoctoral research experience are desirable.

Information about teaching and research responsibilities can be found at **website: <http://www.gustavus.edu/online/academics/bio/openposition.html>** or by calling **Telephone: 507-933-7333**. Candidates should submit a letter of application stating qualifications, a statement of teaching philosophy and research interests, curriculum vitae, undergraduate and graduate transcripts (photocopies acceptable), and three letters of recommendation to: **William Heidcamp, Chair, Biology Department, Gustavus Adolphus College, 800 West College Avenue, St. Peter, MN 56082**. Application review begins October 9, 2000.

It is the policy and practice of Gustavus Adolphus College to provide Equal Educational and Employment Opportunities for all. We especially encourage applications from women, minorities, and persons with disabilities.

PHYSICAL CHEMISTRY DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY University of South Carolina

The Department of Chemistry and Biochemistry at the University of South Carolina seeks outstanding applicants for a tenure-track position as an **ASSISTANT PROFESSOR** in any area of physical chemistry. The position requires development of a nationally recognized research program and excellent teaching at both the undergraduate and graduate levels. Senior appointments will be considered in the case of exceptional qualifications. Ph.D. required; postdoctoral experience preferred. Applicants should send curriculum vitae and a description of research plans and arrange for three letters of reference to be sent to: **Chair, Physical Chemistry Search Committee, Department of Chemistry and Biochemistry, University of South Carolina, Columbia, SC 29208**. **Website: <http://www.chem.sc.edu>**. Materials should be received by October 16, 2000, for fullest consideration. *The University of South Carolina is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women.*

POSITIONS OPEN

IMMUNEX

Creating the Future of Medicine™

At Immunex, we're creating innovative biopharmaceuticals that are giving new hope to people suffering from cancer, inflammatory, and infectious diseases. The Analytical Chemistry and Formulation Department is responsible for analytical characterization, method development, formulation, and drug delivery system development for Immunex's products. We are actively seeking individuals with skills in all areas of biochemical analysis including SDS-PAGE, liquid chromatography, capillary electrophoresis, ELISA, mass spectrometry, and carbohydrate analysis.

RESEARCH ASSISTANTS/ASSOCIATES

Analytical chemistry and formulation: You will be involved with the development and implementation of capillary electrophoretic methods in combination with mass spectrometry for the characterization of recombinant proteins expressed in mammalian cell lines. Qualified candidates will have a B.S./M.S. degree in biochemistry or a related scientific discipline and good laboratory skills in biochemical techniques such as gel electrophoresis (SDS-PAGE, IEF), capillary electrophoresis, and liquid chromatography. Experience with HPLC instrumentation and mass spectrometry is a plus. Good communication skills, computer proficiency, and the ability to work in a team environment also required (Job Code Number 00-0209).

In addition, we have an opportunity to develop and implement analytical methods for the characterization of recombinant proteins expressed in mammalian cell lines. To qualify, you must have a B.S./M.S. degree in biochemistry or related scientific discipline and strong laboratory skills in biochemical techniques such as gel electrophoresis (SDS-PAGE, IEF, Western blotting), liquid chromatography, enzymatic reaction, protein assays, and UV/vis spectroscopy. Familiarity with HPLC instrumentation is a plus. Good communication skills, computer proficiency, and the ability to work in a team environment also required (Job Code Number 00-0206).

Drug delivery and formulation: This position will assist in the development of liquid and lyophilized dosage forms as well as novel protein drug delivery systems in a team-oriented environment. Requires a B.S./M.S. degree in bioengineering, chemical engineering, biochemistry, or equivalent and five years of relevant laboratory experience. Expertise in analytical techniques such as SDS-PAGE, mass spectrometry, capillary electrophoresis, reverse phase, ion exchange, and size exclusion chromatography is required. Knowledge of biophysical characterization techniques such as CD, DSC, and light scattering and experience in the development of protein drug delivery systems are a plus. Demonstration of collaborative work in a team environment is essential (Job Code Number 00-0207).

In addition to the tremendously rewarding environment, you will enjoy an exceptional compensation and benefits package and the benefits of living in a cutting-edge city like Seattle, Washington. Please submit a résumé (Immunex utilizes scanning technology) specifying the appropriate Job Code to: **Immunex Corporation, 51 University Street, Seattle, WA 98101**. E-mail: job-info@immunex.com. For more information, please visit our **website: www.immunex.com/careers**. Immunex is an Equal Opportunity Employer committed to diversity.

TWO POSITIONS SPECIALIZING IN MOLECULAR BIOLOGY/VIROLOGY are available immediately to investigate aspects of orthopox virus biology and vaccine development. Projects include development of novel orthopox vectors for vaccine applications and investigation of DNA replication of orthopox viruses with emphasis on the mechanism for processing and resolution of DNA replicative intermediates. These positions are located on the NIH campus in Bethesda, Maryland and require a Ph.D. Send résumés to: **Dr. Michael Merchlinsky, FDA/CBER, HFM-457, 1401 Rockville Pike, Building 29A, Room 3B05, Rockville, MD 20852-1448**.

POSITIONS OPEN

STRUCTURAL BIOLOGY DARTMOUTH MEDICAL SCHOOL

The Department of Biochemistry at Dartmouth Medical School invites applications for a tenure-track position at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR**. We are interested in outstanding individuals who use structural approaches to address contemporary questions in biology. The Department consists of interactive Scientists with research excellence in a variety of topics and a well-established multidisciplinary graduate student program. The successful candidate is expected to establish an independent research program and to participate in graduate and medical school teaching. Candidates should have a Ph.D. or M.D. degree and relevant postdoctoral training. For more information, visit our **website: <http://www.dartmouth.edu/~biochem/>**.

Curriculum vitae, statements of research accomplishments and research goals, and three letters of recommendation should be sent to:

**Search Committee
Department of Biochemistry
Dartmouth Medical School
7200 Vail Building
Hanover, NH 03755-3844**

E-mail: Hillary.Davis@Dartmouth.edu

The review of applicants will begin October 15, 2000.

Dartmouth Medical School is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and members of minority groups.

FACULTY POSITIONS BIOCHEMISTRY AND POLYMER/ ANALYTICAL/PHYSICAL

The Department of Chemistry and Biochemistry invites applications for two full-time tenure-track **ASSISTANT PROFESSORS** to start in September 2001. Positions are open in the areas of biochemistry and in polymer chemistry (or analytical/physical chemistry with research interests in polymer science). Expectations include the development of a vigorous research program and quality teaching in both undergraduate and graduate programs. The Department offers B.S. and M.S. degrees in chemistry, an M.S. degree in biochemistry, and is developing a B.S. degree program in biochemistry and an M.S. specialization in polymer chemistry. Additional information is available at our **website: www.swt.edu/chemistry/**. Candidates should submit curriculum vitae, outline of proposed research, a statement of teaching philosophy and approach, and the names of three references no later than October 16, 2000, to: **Search Committee, Department of Chemistry and Biochemistry, Southwest Texas State University, 601 University Drive, San Marcos, TX 78666**. *Southwest Texas State University is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITIONS SINGLE-MOLECULE BIOPHYSICS

Three tenure-track positions are available immediately in the newly formed interdepartmental Center for Single-Molecule Biophysics, State University of New York at Buffalo. This is an exciting opportunity to be part of a research group with a specific focus at the level of single molecules (or macromolecular assemblies). Techniques may include fluorescence, AFM/SPM, optical trap, and patch clamp. Potential areas of study include macromolecule folding, motion, and binding. We anticipate the appointments to be at the **ASSISTANT PROFESSOR** level, but more advanced rank will be considered. Generous space and start-up packages are available. Applications will be accepted until all positions are filled. Send curriculum vitae, a brief research statement, and names of three references to: **Anthony Auerbach, Center for Single-Molecule Biophysics, School of Medicine and Biomedical Sciences, University at Buffalo, 124 Sherman Hall, Buffalo, NY 14214**. E-mail: auerbach@buffalo.edu. *University at Buffalo is an Equal Opportunity Employer/Recruiter.*

ANNOUNCEMENTS



TELETHON/JDF CENTERS FOR STUDY OF TYPE 1 DIABETES IN ITALY

CALL FOR LETTERS OF INTENT

Telethon and the Juvenile Diabetes Foundation International (JDF) are pleased to announce a new joint research program in Italy to foster multi-disciplinary research targeted at finding a cure for Type 1 diabetes. Telethon and JDF would like to establish Centers in Italy to support research in Type 1 diabetes, particularly in genetics and genomics, immune modulation, islet transplantation, genetic engineering and gene therapy.

Interested parties should refer to: the Telethon Web site, <http://www.telethon.it>, or to the JDF Web site, <http://www.jdf.org/research/rschinfo.html#applicants>, for the full text of this RFP.

Submit letters of intent addressed to:

*Dr. Francesca Pasinelli, Chief Scientific Officer,
Comitato Telethon Fondazione Onlus
Via Calzecchi, 10, 20133 Milano, Italy,
Phone 39 02 70005931, Fax 39 02 70005947
Email: fpasinelli@mail.telethon.it*

Letters of intent are due no later than October 15, 2000, and applicants will be notified by October 31, 2000.



MDS Ocata is a leading Functional Proteomics company that focuses on the identification and characterization of protein-protein interactions and cell signaling pathways to fuel our drug discovery and drug development programs. We currently seek several energetic and highly motivated scientific professionals for challenging positions in our R&D programs:

Analytical R&D – We seek several scientists to develop systems for protein purification/processing, protein arrays, microfluidic systems, and separation techniques coupled with mass spectrometers. These positions require experience in the areas of instrument development, mass spectrometry of proteins/peptides, and an ability to interact with our engineering team.

Automation/process development – We seek several individuals to expand our efforts in the areas of protein expression/purification and laboratory automation. These positions require experience in the areas of molecular and cell biology, biochemistry, and general programming.

Protein Chemistry/process development – We seek a senior investigator with expertise in the development and application of protein capture methods including, but not limited to, approaches based on affinity interactions, phase partitioning, and standard separation techniques.

Molecular Biology – We seek a research associate with extensive experience in recombinant DNA technology that will be responsible for optimizing current cloning protocols and introducing new techniques. Experience in PCR, cloning, DNA sequence analysis, cDNA preparation and library screening is required.

Qualified candidates will have a background (B.Sc. to Ph.D.) in molecular biology, cell biology, biochemistry, analytical chemistry, or bioinformatics. Expert current knowledge in the specific discipline is expected and industrial experience would be an asset. Good oral and written skills, as well as a strong work ethic, are essential. We offer a competitive salary and benefit package in a stimulating environment within a well-equipped, modern facility in downtown Toronto. Please send your resume together with the names and telephone numbers of three references to: **Human Resources, Quote: Science 09/00, MDS Ocata Inc. Suite 401, 480 University Ave., Toronto, Ontario M5G 1V2, Canada.** We thank all candidates for their interest; however, only those selected for an interview will be contacted.

Faculty Position in International Environmental Policy

Connecticut College seeks to appoint as *Virginia Eason Weinmann* Professor of International Studies a person in either the social or natural sciences with an outstanding record of teaching and research in the area of international environmental policy. Candidates should have a Ph.D. or equivalent terminal degree and should have publications or professional experience that contribute to a policy focus on international environmental issues. We encourage candidates with specialization in such areas as sustainable development, international trade, economic development, policy analysis, global environmental change, international relations, international law, international organizations and environmental treaties to apply. The position, to commence in the fall 2001 academic semester, will be filled at the Associate or Full Professor level and the departmental assignment will depend on the candidate's background. The successful candidate will be expected to teach courses for the Program in Environmental Studies as well as in their primary discipline and actively engage students in research.

Please send a cover letter that describes your teaching and research philosophies, a curriculum vitae and three letters of reference to: **Peter Siver, Program in Environmental Studies, Box 5604, Connecticut College, New London, CT 06320.** Screening of candidates will begin on October 15, 2000. Connecticut College is a private, highly selective college with a strong commitment to the liberal arts tradition and a rich history in environmental research and education (<http://CCBES.conncoll.edu>). The College is an Affirmative Action/Equal Opportunity Employer and is engaged in further diversifying its faculty and staff.

DIRECTOR, ADMINISTRATION Gaithersburg, Maryland

We currently seek a Director of Administration for our Paffenbarger Research Center (PRC) located in Gaithersburg, Maryland. This position is responsible for the day-to-day administrative operations of PRC along with directing or acting as principal investigator on independent research projects; managing cooperative projects and programs with NIST; and occasionally acting as liaison between PRC and various dental professionals, industrial representatives and federal research funding agencies. This position requires a DDS and/or PhD with 5+ years background in dental and/or material research; technical writing and editing experience; knowledge and experience in public relations and publishing, including desktop publishing operations; public speaking experience; authorship of published peer reviewed articles and/or research results; grantsmanship training; grant administration experience; and proven grant success from a federal agency. If you qualify, please send your resume and salary requirements to:

**American Dental Association, Dept.
KB#495, 211 E. Chicago Ave., 5th Fl.,
Chicago, IL 60611.**



EOE

Opportunities

Assistant/Associate Professor of Pediatrics Division of Endocrinology Diabetes Research Center (Immunology)

The Diabetes Research Center seeks an outstanding immunology researcher for a full-time, tenure-track faculty position. The successful candidate will have an MD and/or PhD, an accomplished record of innovative laboratory research at a postdoctoral level, and will develop and maintain a basic research program in Type 1 diabetes. Either patient- or animal-based research welcome, but experience in transgenic knock out mice, functional genomics or proteomics preferred. Clinical duties are not obligatory, but are an option for qualified applicants. The candidate will be expected to develop associations with the new Division of Immunobiology and the graduate program in Molecular and Developmental Biology at Children's Hospital Medical Center.

To apply, send CV, a letter of research interests and three (3) letters of recommendation to:

**Jonathan D. Katz, Ph.D.
Director of Diabetes Research Center
Division of Endocrinology
Children's Hospital Medical Center
3333 Burnet Avenue
Cincinnati, OH 45229-3039
E-mail: jonathan.katz@chmcc.org**

Visit our website at www.cincinnatichildrens.org
Children's Hospital Medical Center is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.

POSITIONS OPEN

DEPARTMENT CHAIR ENVIRONMENTAL STUDIES

Baylor University invites applications for a tenure-track position at the rank of **ASSOCIATE** or **FULL PROFESSOR** to serve as Chair of the Department of Environmental Studies beginning 2001. The successful candidate will be a Natural Scientist who has experience and expertise in solving environmental problems. Knowledge of geographical information systems (GIS) is also desirable. Applicants must have an established research record, demonstrate a commitment to undergraduate and graduate teaching, show strong administrative and leadership experience, and complement Departmental strengths. Applications will be reviewed beginning October 1, 2000, and will be accepted until the position is filled. To ensure full consideration, applications must be submitted by November 1, 2000. Initial applications shall include a detailed letter of interest, curriculum vitae, and names and telephone numbers of at least three references. Please mail application packets to: **Dr. Lee Nordt, Chair of the Search Committee, Department of Environmental Studies, Baylor University, P.O. Box 97266, Waco, TX 76798-7266.** For further information, please refer to website: http://www.baylor.edu/~Envir_Studies/.

Baylor University is a Baptist university affiliated with the Baptist General Convention of Texas. As an Affirmative Action/Equal Employment Opportunity Employer, Baylor encourages minorities, women, veterans, and persons with disabilities to apply.

THEORETICAL/COMPUTATIONAL CHEMISTRY POSITION

Emory University Department of Chemistry

A new position in theoretical/computational chemistry at the tenure-track **ASSISTANT PROFESSOR** level will be available beginning the fall semester of 2001. We are interested in individuals with Ph.D.s who have a strong background in theoretical chemistry and who have interests in applications to problems at the interface between biology and chemistry. Strong commitment to teaching at graduate and undergraduate level is essential. This position is one of several that will be filled in the next few years in the areas of biological and materials chemistry as part of expansion of the Department into a new 40,000-square-foot facility. The theoretical position will be affiliated with the Cherry L. Emerson Center for Scientific Computation, which will move to the new building in fall 2000. Applicants should send curriculum vitae, a research proposal and a short statement on teaching interest, and make arrangement to have three letters of recommendation sent directly to: **Theoretical Computational Search Committee, Department of Chemistry, Emory University, Atlanta, GA 30322.** Review of applications begins on October 1, 2000, and will continue until the position is filled. *Emory University is an Equal Opportunity/Affirmative Action Employer. We especially encourage applications of minority and women candidates.*

STAFF SCIENTIST

Will conduct independent research in the area of maize transformation via biolistics; produce transformants and evaluate actions of insecticidal genes; evaluate genotypes for transformability; investigate comparative susceptibility of different varieties of plants, and develop varieties immune to disease. Coordination of a multidisciplinary international research effort. Will establish project goals and methodology. Requires Ph.D. degree or U.S. equivalent in crop science, biochemistry, or related field. Must have extensive scientific knowledge in transformation technology. Must have one year of experience in crop science, biochemistry, and/or related field. \$52,731 per year. 9 a.m. to 5 p.m./40-hour week. Resumes must be submitted with Social Security number to Job Order Number NC3013678/DOT code 040.061-010 to nearest Job Service office or: **Job Service, 1105 Briggs Avenue, Durham, NC 27703.** *Equal Opportunity Employer.*

POSITIONS OPEN



The Wildlife Conservation Society-International Programs seeks to hire a **QUANTITATIVE ECOLOGIST/MONITORING SPECIALIST** and a **SOCIAL SCIENCE MONITORING SPECIALIST** for its Living Landscapes Program. Candidates for these positions should have a Ph.D. or M.Sc. in a discipline related to either natural resource management or ecology/biodiversity conservation, possess strong analytical and quantitative skills, have substantial field experience, and work well as a team member. These positions will be based in New York but will include substantial travel to field sites. Spanish and/or French fluency preferred. Candidates will provide expertise in monitoring either biological or social parameters and indicators and work with a team of field and central staff to design, implement, and evaluate a suite of landscape-scale conservation projects. For more information, contact: **Sarah Ward, LLP Program Coordinator, Wildlife Conservation Society, 2300 Southern Boulevard, Bronx, NY 10460.** E-mail: sward@wcs.org.

SCIENTISTS/SENIOR SCIENTISTS STEM CELL BIOLOGY

CyThera, Inc., founded in January 2000 in San Diego, California, is a biotechnology company focused on developing cell replacement therapies for the treatment of human degenerative disease. The company has a proprietary platform technology based on adult and embryonic stem cells, which allows the expansion and proliferation of functional human cells to restore function, overcoming the problems of obtaining donor organs. The company's initial focus is on pancreatic islet cell transplantation for the treatment of insulin-dependent diabetes.

Successful candidates will have strong backgrounds in the proliferation and differentiation of embryonic, hematopoietic, or neuronal stem cells. Experience in pancreatic islet biology and molecular biology techniques is a plus. A Ph.D. in cell or molecular biology or related disciplines is required plus two years of postdoctoral training.

Candidates must have strong communication skills and the ability to work in a team. CyThera offers competitive salaries and an attractive stock option and benefits package. Please reference Job Code Number 100SCI and send or e-mail your résumé to:

CyThera, Inc.

Attention: Human Resources

3550 General Atomics Court Number 2-503

San Diego, CA 92121

E-mail: hr@cytheraco.com

FAX: 858-455-3962

The U.S. Department of Agriculture, Agricultural Research Service, Beltsville, Human Nutrition Research Center, Nutrient Requirements and Functions Laboratory (NRFL), Beltsville, Maryland, is seeking two permanent full-time **RESEARCH BIOLOGIST/RESEARCH PHYSIOLOGIST/MICROBIOLOGIST (IMMUNOLOGIST)/NUTRITIONIST, GS-12/13/14.** Salary is commensurate with experience (\$51,204 to \$93,537 per year) plus benefits. *Must be U.S. citizen.* Is responsible for planning and conducting research concerning the effects of nutrient bioavailability and interactions with mucosal immunity to infectious and metabolic diseases and the immunophysiology of the gastrointestinal tract. Appropriate qualifying education is required. For research program information, e-mail: urbanj@ba.ars.usda.gov or call **Dr. Joseph Urban; Telephone: 301-504-5528.** Must request vacancy announcement ARS-X0E-4076 to address specific qualification requirements. Visit website: <http://www.ars.usda.gov/afm/hrd/resjobs/htm> or **Telephone: 301-504-1484.** For specific questions, e-mail: bjacobs@ars.usda.gov or **Telephone: 301-504-1350.** Applications must be postmarked by October 16, 2000. *USDA/ARS is an Equal Opportunity Employer and Provider.*

POSITIONS OPEN

ASSISTANT PROFESSOR

The Department of Animal Sciences at the University of Vermont invites applications for two nine-month tenure-track positions at the rank of **ASSISTANT PROFESSOR** in lactation physiology/mammary gland biology. Responsibilities include establishing innovative research programs to complement our focus on enhancing milk quality, composition, and production efficiency and teaching and advising undergraduate and graduate students. Qualifications include a Ph.D. in animal science or a related field and research and teaching ability. Postdoctoral experience desired. Submit a letter of application, résumé, academic transcripts, a statement of research and teaching goals, and have three letters of reference sent to: **Dr. Thomas B. McFadden, Search Committee Chair, Department of Animal Sciences, University of Vermont, Burlington, VT 05405.** Evaluation of applications will begin on November 1, 2000, and will continue until suitable candidates are identified. Information is available at website: <http://asci.uvm.edu>. *The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

Chemistry Department, Penn State, University Park, Pennsylvania. Several **JUNIOR** and **SENIOR-LEVEL FACULTY POSITIONS** are available for fall 2001. Appointees are expected to establish an exceptionally strong and highly visible research program that incorporates excellence in undergraduate and graduate education. Rank is open; however, senior appointments should have a previous record of national and international distinction. We encourage applications from candidates in all areas of chemistry, including those that interface with other disciplines such as environmental sciences, materials sciences, biological sciences, and bioinformatics. Applicants should submit curriculum vitae, a list of publications, research plans, and arrange to have three letters of recommendation sent to: **Chair of the Search Committee, Box 5, Department of Chemistry, 152 Davey Laboratory, Penn State University, University Park, PA 16802.** Review of applications will begin on October 1, 2000, and continue until the positions are filled. *Affirmative Action/Equal Opportunity Employer.*

The University of Wisconsin-Madison Department of Psychology announces a search in behavioral neuroscience at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level, beginning in August 2001. We seek an individual whose work complements current research programs within the department. This would include research on the biological bases of social behavior, affect and motivation, or cognition in animal models, including nonhuman primates. See our website: <http://psych.wisc.edu> for relevant information about departmental programs and facilities. Applications will be accepted until November 10, 2000 although interviewing may begin earlier. Candidates should submit a letter of application, at least three letters of recommendation, a curriculum vitae and selected reprints to: **Chair of the Behavioral Neuroscience Search Committee, Department of Psychology, University of Wisconsin-Madison, 1202 West Johnson Street, Madison, WI 53706-1696.** *The University of Wisconsin-Madison is an Equal Opportunity/Affirmative Action Employer and especially encourages women and minorities to apply. Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality.*

POSTDOCTORAL POSITION available to investigate sulfolipase regulation. The NSF-funded research involves undergraduates and teaching opportunity includes a one-month spring term. Experience in kinetics, purification, and molecular methods is desired. Send curriculum vitae and two letters of reference to: **Dr. Joe D. Beckmann, Department of Biochemistry, Alma College, 614 West Superior Street, Alma, MI 48801.** E-mail: beckmann@alma.edu. *Alma College is an Equal Opportunity Employer.*



Department of Pure and Applied Mathematics

Trinity College Dublin, founded in 1592, has a long tradition in the study of mathematics and its Department of Pure and Applied Mathematics currently has two full-time Chairs, the earlier of which dates from 1762. Following the retirement of the previous incumbent, the College is now seeking outstanding candidates, with an international reputation of achievement, for the

University Chair of Natural Philosophy (1847)

Candidates should have a distinguished record of achievement in research in any area of applied mathematics or theoretical physics, and a strong commitment to teaching. The person appointed will serve as Head of Department in accordance with College regulations concerning headship.

The appointment, which will be tenable from 1 June 2001 (or as soon as possible thereafter), will be made at the appropriate point on the professional salary scale, which for new entrants is currently IR£50,374-IR£65,962 (€63,962 - €82,649).

Information about the Department and further particulars of the appointment, including details of salary and other benefits may be obtained from

Michael Gleeson
Secretary to the College
Trinity College
Dublin 2

Telephone: +353 1 608 2197/1123
Fax: +353 1 671 0037
e-mail: moya.thompson@tcd.ie

To whom formal application may be sent to arrive by the preferred closing date of **29th September 2000**.

Further details regarding the Department may be obtained on the
website: <http://www.maths.tcd.ie>

NOVARTIS FOUNDATION BURSARY SCHEME

Bursaries are offered for Novartis Foundation symposia in 2001:

- No.242 **ENDOCRINE FACETS OF AGEING IN THE HUMAN AND EXPERIMENTAL ANIMAL**
(29) 30 Jan - 1 Feb 2001
Magnitudes and time courses of endocrine adaptations in ageing human and experimental animal; influence of external factors on rates of progression of endocrine sequelae of ageing; mechanisms underlying disarray of endocrine axes in ageing. Closing date for applications: 17 November 2000
- No.243 **MECHANISMS OF DRUG RESISTANCE IN EPILEPSY**
(12) 13 - 15 March 2001
Overview and history of the problem; basic mechanisms of drug resistance; drug resistance and blood brain barrier; lessons learned from drug resistance in oncology; studies of drug resistance in epilepsy. Closing date for applications: 1 December 2000
- No.244 **THE GENETICS AND BIOLOGY OF SEX DETERMINATION**
(30 April) 1 - 3 May 2001
Genetics and biochemistry of mammalian sex determination; comparisons with other modes of sex determination; consideration of the biology of sexual development and of the evolution of sex-determining mechanisms. Closing date for applications: 1 February 2001
- No.245 **ION CHANNELS-ATOMIC RESOLUTION PHYSIOLOGY**
(11) 12 - 14 June 2001
Physiology and physics of ion channels; crystallographic studies of ion channels; molecular modelling of channels and transporters; large scale simulation of membranes and channels. Closing date for applications: 1 March 2001

PURPOSE: To enable young scientists to attend Novartis Foundation symposia in London and, immediately following the meeting, spend four weeks in the department of one of the symposium participants.

AWARD: a) travel expenses to symposium and host laboratory and
b) board and lodging for the duration of the bursary.

QUALIFICATIONS: Applicants (of any nationality) must be aged between 23-35 years on the closing date for application. It is essential that they be actively engaged in research on the topic covered by their chosen symposium. They should not already have accepted an invitation to participate in that symposium.

APPLICATIONS: Should include the following information: *Full name, address and date of birth; Title of symposium; Qualifications and short resumé of university education; Career history, inc. full list of publications; Full details of current research; Aims of future career; Names and addresses of two referees* and be addressed to:

Bursary Scheme Administrator, The Novartis Foundation,
41 Portland Place, London, W1B 1BN, UK.

Tel: +44 (0)20 7636 9456, Fax: +44 (0)20 7436 2840, Email: bursary@novartisfound.org.uk

For more information please visit: <http://www.novartisfound.org.uk/bursary.htm>

The Novartis Foundation is a registered charity, no. 313574

GLOBAL OPPORTUNITIES

Chief Scientist to Lead Research in Theoretical Sciences Permanent Position

The Institute of Physical and Chemical Research (RIKEN)

RIKEN invites applications for the position of Chief Scientist to lead a new laboratory working on Theoretical Sciences. The successful candidate will be responsible for the laboratory's overall management and research strategy, directing research projects and contributing to more general aspects of the institute's management and research planning activities. Applicants should have appropriate research experience supported by relevant publications.

The successful candidate will lead the laboratory which, as a whole, will conduct theoretical studies at the highest level on subjects of current interest, especially those related to the broad areas of experimental subjects presently covered at RIKEN. The following two broad categories of scientific fields are expected to be included in the program, namely:

- 1) Particle, nuclear, astronomical, atomic/molecular physics and
- 2) Condensed matter, chemistry and complex systems, including biological sciences.

The laboratory would be strongly encouraged to have productive interactions with the broad range of experimental studies currently being conducted at RIKEN.

The post is a permanent appointment, subject to RIKEN's mandatory retirement age of 60. Terms and conditions of employment shall include a director-level salary and be in accordance with RIKEN's procedures for appointing Chief Scientists. The successful applicant will be expected to take up this position from April 1st, 2001.

An applicant should send: a full curriculum vitae and photograph; a list of publications; one copy each of five key publications; a statement explaining research experience, reasons for his/her application, proposals for research at RIKEN (these should not exceed five pages of A4 sized paper); and the names and addresses of three referees. Further details are available from the address below. All applications should be received by December 31st, 2000.

Applicants should address all correspondence to:

Dr. K. Nagamine, Head of the Chief Scientist Nominating Committee
Muon Science Laboratory
The Institute of Physical and Chemical Research (RIKEN),
2-1 Hirosawa, Wako-shi
Saitama, 351-0198, JAPAN

Tel.: +81-48-467-9352 Fax: +81-48-462-4648

E-mail address: nagamine@postman.riken.go.jp

Information about RIKEN is available on Web Site (<http://www.riken.go.jp/>)

POSITIONS OPEN

MARINE SCIENTIST

The Dauphin Island Sea Laboratory announces the availability of a faculty-level Marine Scientist position starting in fall 2001. We invite applications from individuals with research and teaching interests in any area of marine science focusing on estuarine or coastal ecosystems. Areas of special interest include but are not limited to application of stable isotope, landscape or food web modeling, or molecular techniques in their investigations.

While more qualified candidates will be considered, the position is expected to be filled at the **ASSISTANT PROFESSOR** level beginning in fall of 2001. Salary is competitive and will be provided for 10 months per year. Start-up funds for research will be provided. Teaching responsibilities (graduate and undergraduate) normally include two courses per year.

The Dauphin Island Sea Laboratory is located south of Mobile, Alabama, at the confluence of the Mobile Bay and the Gulf of Mexico. This environment includes a diverse array of understudied habitats, ranging from extensive oligohaline/saltwater marshes to the productive open waters of the northern Gulf. The DISL is a 36-acre campus where teaching and research are supported by numerous research vessels (14 feet to 65 feet), a newly renovated flowing seawater laboratory, a comprehensive library, and modern laboratory and analytical facilities. For additional descriptions of DISL facilities and programs see our website: <http://www.disl.org>.

Applicants should send curriculum vitae, a brief statement of teaching and research interests, two to three selected reprints, and the names and contact information (including e-mail addresses) of three references to: **Dr. John F. Valentine, Chair, Marine Scientist Search Committee, Dauphin Island Sea Laboratory, 101 Bienville Boulevard, Dauphin Island, AL 36528**. Review of applications will begin October 15, 2000, and continue until the position is filled. *The DISL is an Equal Opportunity Employer/Affirmative Action/Minorities/Females/Disabled Employer.*

A position is available immediately in the Division of Monoclonal Antibodies, Office of Therapeutics Research and Review, Center for Biologics Evaluation and Research, Food and Drug Administration, for a **PLANT GENETICIST/MOLECULAR BIOLOGIST**. The successful candidate will have a Ph.D. in plant genetics or plant molecular biology with experience in the production of transgenic plants. Knowledge of transient transfection methodology and/or germline transfection methodology is required. Good writing skills are essential. This position will involve learning about the regulatory procedures of the FDA and will focus on the development of a regulatory guidance document on biological products produced in plants for human and animal use. A Ph.D. and less than three years of postdoctoral experience are required. This is a one-year position and is funded through an Intramural Research Training Award fellowship. It carries a stipend of between \$35,000 and \$44,000 per annum depending on experience. Laboratories are located on the NIH campus in Bethesda, Maryland. Interested applicants should forward curriculum vitae and the names and contact information for three references to: **Keith Webber, Ph.D., 1401 Rockville Pike, HFM-555, Rockville, MD 20852-1448**. E-mail: webber@cber.fda.gov. *The FDA is an Equal Opportunity Employer.*

RESEARCH SCIENTIST

A new research position is available to examine the regulation of normal and malignant hematopoietic proliferation and differentiation. Current projects include the molecular characterization of a novel family of nuclear migration genes utilizing gene disruption, transgenic mice, and protein biochemistry. Strong background in molecular biology and at least four years of laboratory experience are required. If interested, please send your curriculum vitae and letter of interest to: **Weis Center for Research, Attention: Suann Klechinski, Administrative Assistant, 100 North Academy Avenue, Danville, PA 17822-2601**.

POSITIONS OPEN

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Our strong pipeline and portfolio of marketed products provides security and future that few biotechnology-based companies can match. Based in Seattle, Washington, you will enjoy all the benefits of this cutting-edge city. Beautiful scenery from mountains to water plus all the amenities of urban living are easily within your grasp.

EPIDEMIOLOGIST

M.D., DRUG SAFETY SURVEILLANCE

We are currently seeking a qualified Epidemiologist for pharmacovigilance investigations in the Department of Drug Safety Surveillance (Number 00-0258). Additional position for M.D., Drug Safety Surveillance, responsible for review of spontaneous event reports for marketed products and serious adverse event reports for clinical studies (Number 00-0257).

Please submit a résumé (Immunex utilizes scanning technology) specifying Job Number to: **Immunex Corporation, 51 University Street, Seattle, WA 98101**. FAX: 206-621-1399; e-mail: job-info@immunex.com. For more information about Immunex, visit our website: www.immunex.com/careers. *Immunex is an Equal Opportunity Employer committed to diversity.*

BASIC SCIENTIST (PSYCHIATRIST) UNIVERSITY OF CALIFORNIA SAN FRANCISCO

The Department of Psychiatry and the Program in Biological Sciences at the University of California, San Francisco, invites applications for a Psychiatrist who does research in laboratory science generally related to mental illness. We are primarily seeking to fill this position at the tenure-track **ASSISTANT PROFESSOR** level, but outstanding applications from those at the **ASSOCIATE to FULL PROFESSOR** level will be considered for a tenured appointment. Applicants should be Board-eligible or Board-certified in psychiatry and have postdoctoral research training. The appointment will begin on or after July 1, 2001. Please submit your curriculum vitae, research plan, three letters of reference, and three journal articles by January 1, 2001, to: **John Rubenstein, M.D., Ph.D., Search Committee Chair, c/o Catherine Yunger, University of California, San Francisco Department of Psychiatry, Administration Department, 401 Parnassus Avenue, San Francisco, CA 94143-0984**. *University of California, San Francisco is an Affirmative Action/Equal Opportunity Employer. The University undertakes Affirmative Action to assure Equal Employment Opportunity for underrepresented minorities and women, for persons with disabilities, and for Vietnam-era veterans and special disabled veterans.*

DIVISION DIRECTOR NATURAL RESOURCES AND ENVIRONMENT

The United States Department of Agriculture, Cooperative State Research, Education, and Extension Service (CSREES), seeks a qualified candidate to serve as Division Director for the National Research Initiative Competitive Grants Program, Natural Resources and Environment Division. Candidates must have an advanced degree with major study in a natural resources-related discipline such as natural resource management, forestry, ecology, ecosystem science, environmental sciences related to agriculture, etc. Applicants also should have supervisory experience. *Candidates must be U.S. citizens and it is preferable that they have a Ph.D. degree or equivalent experience.*

Closing date is October 12, 2000. Applicants must address the Quality Ranking Factors listed in the vacancy announcement. Contact: **Dr. Sally Rockey, Telephone: 202-401-1761; e-mail: srockey@reusda.gov** for more information. Application procedures and forms are available from: **The Human Resources Division; Telephone: 202-720-6130; website: <http://www.reusda.gov/hrd/SOM-1023.htm>**. *USDA is an Equal Opportunity Employer.*

POSITIONS OPEN

IMMUNOLOGIST. The Department of Biomedical Sciences and Pathobiology, Virginia-Maryland College of Veterinary Medicine is continuing to accept applications for a calendar-year, tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** position in immunology available January 1, 2001. Experience in cell signal transduction, CMI basic mechanisms, recombinant DNA technology, and/or other molecular approaches is preferred. In addition to the appointee's own research, collaboration in ongoing Departmental programs in vaccine development, autoimmunity, and immunotoxicology is strongly encouraged. Applicants must have a Ph.D. and postdoctoral experience. The appointee will be expected to establish an independent and extramurally funded research program. Although the program is primarily research focused, mentoring of graduate students and participation in the graduate program is expected. Send a letter of application, description of research goals, curriculum vitae, and names of three references to: **Immunology Search, Department of Biomedical Sciences and Pathobiology, College of Veterinary Medicine, Virginia Tech, Blacksburg, VA 24061**. Applications will be accepted until the position is filled. *Virginia Tech has a strong commitment to the principle of diversity and, in that spirit, seeks a broad spectrum of candidates including women, people of color, and people with disabilities. Individuals with disabilities desiring accommodations in the application process should notify: Dr. Ludeman Eng at the address above or by Telephone: 540-231-4652; e-mail: laeng@vt.edu; Virginia Telecommunications Relay Service: 800-828-1120.*

The Laboratory for Membrane Transport at Harvard Medical School has an opening for a **RESEARCH ASSOCIATE/SENIOR RESEARCH ASSOCIATE** at the level of Ph.D. or equivalent. The successful applicant will coordinate an anticancer drug discovery program that involves design, synthesis, screening, and pharmacodynamic analysis of novel target-specific anticancer agents. Candidates must have a solid knowledge of organic synthetic chemistry and pharmacology. She or he must be experienced in (1) solid-phase coupling; (2) modern separation and analytical instrumentation, such as HPLC and LC-MS; and (3) identification and implementation of state-of-the-art techniques in the field. These techniques include high-throughput analytical methods and bioinformatics for the analysis of large numbers of compounds leading to the rapid characterization of leads. We seek a scientist who possesses a distinguished academic record, excellent laboratory skills, and proven problem-solving abilities in addition to the interpersonal and management skills necessary to coordinate an intensive, cooperative drug discovery effort. Salary and benefits are competitive and commensurate with his/her qualifications. Qualified candidates should forward curriculum vitae, statement of research experience, and names of three references to: **Dr. Jose Halperin, M.D., Laboratory for Membrane Transport, Harvard Medical School, 240 Longwood Avenue, C1-607, Boston, MA 02115**. E-mail: Jose_Halperin@hms.harvard.edu.

Agricultural Administrator. The U.S. Department of Agriculture, Agricultural Research Service, Ft. Pierce, Florida is seeking a **DIRECTOR** of the U.S. Horticultural Research Laboratory. The Laboratory's research mission is to develop fundamental knowledge and new scientific principles to (1) develop citrus germplasm, citrus scion varieties, and rootstocks; (2) research insect pests of citrus, vegetable, and ornamental crops; (3) conduct a program of basic physiological, biochemical, and pathological research on postharvest problems of horticultural crops; and (4) control citrus and vegetable diseases. Applicants must have degree in biological sciences, agriculture, natural resource management, chemistry, or disciplines related to the position and one year of specialized experience. Salary: commensurate with experience (\$82,876 to \$107,738). Contact: **Toni Rouillier; Telephone: 561-462-5811** for a copy of the application package. Incomplete applications will not be accepted. Applications must be marked ARS-XOS-0310A and postmarked by September 25, 2000. *USDA/ARS is an Equal Opportunity Provider/Employer.*

POSITIONS OPEN

BIOCHEMIST: Franklin and Marshall College has been awarded funds by the Howard Hughes Medical Institute to enhance biochemistry education in the departments of Biology and Chemistry. The Department of Biology at Franklin and Marshall College announces a tenure-track opening at the **ASSISTANT PROFESSOR** level starting July 2001. The successful applicant, who must have a strong background in biochemistry, will play an important role in the Department's new major in biochemistry and molecular biology. Candidates should have the Ph.D., a strong commitment to both teaching and research, and the ability to engage undergraduates in research. Teaching responsibilities will include (1) lecture and laboratory sections of a sophomore core course, either our course in cell biology or our course in organismal biology and (2) an elective in biochemistry. Franklin and Marshall (enrollment 1,800) is a coeducational liberal arts college with a tradition of excellence in science and student research. Applications should include (1) curriculum vitae; (2) statements of teaching and research experience, philosophy, and plans; and (3) copies of undergraduate and graduate transcripts; also (4) have letters sent from three references to the Search Committee Chair. Complete applications should be received by October 9, 2000, by: **R. A. Fluck, Search Committee Chair, Department of Biology, Franklin and Marshall College, Lancaster, PA 17604-3003. Telephone: 717-291-4118; FAX: 717-399-4548; e-mail: c.mcintyre@acad.fandm.edu; website: http://www.fandm.edu/Departments/Biology.** Equal Opportunity Employer/Affirmative Action. The College is committed to cultural pluralism through the hiring of minorities and women.

SECTION CHIEF, MEDICAL ONCOLOGY: The Department of Internal Medicine at Yale University is seeking a Chief for the Section of Medical Oncology. This appointment will be at the **FULL PROFESSOR** level. Candidates should have an excellent background in research, clinical care, teaching, and administration. There is the opportunity to recruit additional faculty in several areas of clinical and/or basic research. Please send curriculum vitae and bibliography as well as any supporting materials to: **Joe Craft, M.D., Professor of Medicine and Immunobiology, Chief, Section of Rheumatology, Department of Medicine, 333 Cedar Street, P.O. Box 208031, New Haven, CT 06520-8031 by October 7, 2000.** Yale is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

EUROPEAN OPPORTUNITIES

POSTDOCTORAL RESEARCH FELLOW SCHOOL OF CHEMISTRY The University of Leeds, United Kingdom

You will work as part of a European Union-Training and Mobility of Researchers network on "Complex Architectures in Diblock Copolymer-Based Polymer Systems." A non-U.K. citizen of an EU country, you will be predominantly concerned with structure and dynamics probed using X-ray scattering experiments at the Synchrotron Radiation Source, Daresbury, U.K., and the European Synchrotron Radiation Facility, Grenoble, France. The work will also involve rheology experiments in the laboratory. A Ph.D. in chemistry, materials science, physics, or related field is required, and some experience of X-ray scattering and/or polymer/soft solids rheology is preferred. The appointment is for a fixed period of 12 months. Salary: Research IA (£16,775-£21,435 per annum). Application packs are obtainable from: **Dr. I. W. Hamley, School of Chemistry, University of Leeds, Leeds LS2 9JT. Telephone: 0113 233 6430; FAX: 0113 233 6565; e-mail: I.W.Hamley@chem.leeds.ac.uk.** Job reference: 043-135-050-029. Closing date: 15 September 2000. We welcome applications from all sections of the community regardless of gender, ethnic origin, or disability. **Textphone for deaf applicants only: 0113 233 4353.** All information is available in alternative formats; please **Telephone: 0113 233 5771.**

POSITIONS OPEN



DIRECTOR CONSERVATION RESEARCH FELLOWSHIP PROGRAM

The Nature Conservancy (TNC) seeks a Director for the David H. Smith Conservation Research Fellowship Program. This program awards more than \$1 million annually in fellowships for postdoctoral and visiting scientists to conduct research on pressing conservation problems affecting TNC sites. The Director provides overall leadership and builds, markets, and manages the program. He/she collaborates as part of a TNC team, furthering the general goal of improving conservation through research. The ideal candidate combines strong leadership, management, and communication skills with broad scientific knowledge and a fundamental understanding of how research can help solve real-world conservation problems. Ph.D. in conservation biology, ecology, or related field required. Up to 20% time may be devoted to research at TNC sites. Salary: \$70,000 to \$80,000. Located in Arlington, Virginia (strongly preferred), with frequent travel. Review full posting at website: <http://www.tnc.org> before applying (listed under "Headquarters"). Submit letter, curriculum vitae, and names of three references by 31 October 2000 to: **Dr. E.A. Chornesky, The Nature Conservancy, c/o Environmental Studies Department, Natural Sciences 2, 1156 High Street, University of California, Santa Cruz, CA 95064.**

The Department of Ophthalmology at the University of Alabama at Birmingham (UAB) School of Medicine invites applications for a faculty position at the rank of **ASSISTANT PROFESSOR**. This is a non-tenure-track position. Successful candidates are expected to conduct productive independent research programs dealing with age-related visual impairment and eye disease. Send curriculum vitae and statement of research interests to: **Lanning B. Kline, M.D., Chairman, UAB Department of Ophthalmology, 700 South 18th Street, Suite 601, Birmingham, AL 35233.** An Affirmative Action/Equal Opportunity Employer.

COURSES AND TRAINING

The Organization for Tropical Studies (OTS) and the Smithsonian Tropical Research Institute (STRI) are soliciting applications for a special course in advanced comparative tropical ecology for fall 2001. The course will provide an intensive comparative research experience for a highly select group of **POSTDOCTORAL SCHOLARS, JUNIOR FACULTY MEMBERS, and ADVANCED GRADUATE STUDENTS** at four of the premier research sites in the Neotropics. Participants will contribute to comparative data sets at each site and will develop cross-site comparative independent projects in their areas of expertise. The principal language of instruction will be English. Scholars from outside the United States who are fluent in the language are encouraged to apply. Participants are not required to be affiliated with an OTS member institution or with STRI. Financial assistance to cover the costs of tuition is available. Further information: **OTS, Box 90630, Durham, NC 27708-0630 U.S.A. Telephone: 919-684-5774; e-mail: nao@duke.edu.** Application available at website: <http://www.ots.duke.edu>. Deadline for applications is October 16, 2000; notification to participants will be December 1, 2000.

POSITIONS OPEN

POSTDOCTORAL POSITION in molecular biology/signal transduction at Gene Center, City University of New York. Requirements: Ph.D. or equivalent degree in biochemistry, molecular biology, genetics, or related fields. Publications. Salary: \$30,000 per year or above commensurate with experience. We offer excellent and flexible health benefits including medical and dental and pension after one year. To apply, send e-mail to: Research@genectr.hunter.cuny.edu. Include three references to contact.

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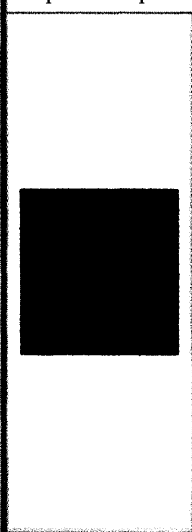
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