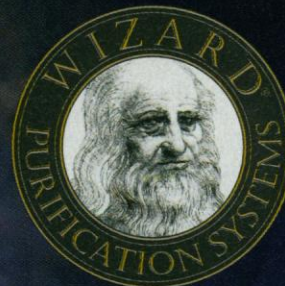


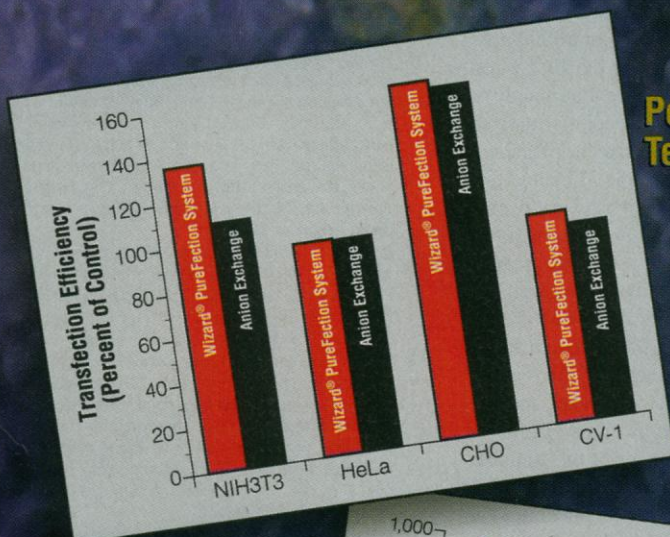
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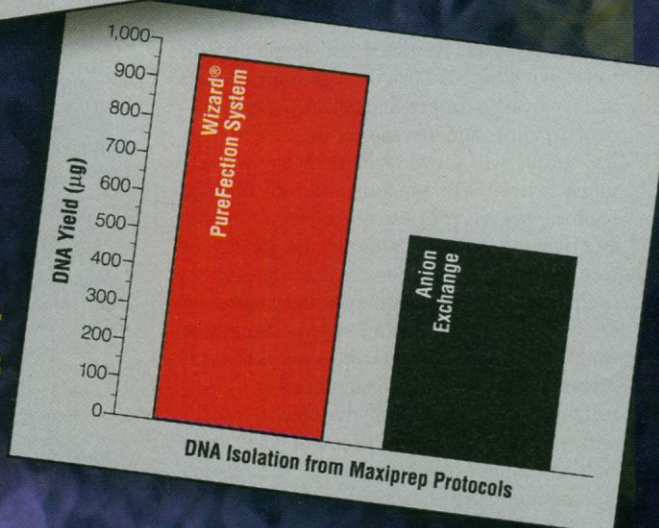
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formaldehyde, or ammonia, while the HEPA filters entrap particles 0.3 μm or smaller such as bacteria and chemical powders. The HEPA filters can be installed above or below the carbon filters depending on the application. For critical environment applications, the HEPA filters are installed above the carbon filters so chemical vapors are captured first, before the particulates. This arrangement helps maintain established Class 100 conditions within the room because any fine particles escaping the carbon are entrapped by the HEPA filters before air exhausts into the laboratory.

LITERATURE

The TRIAX Series: A Complete Line of Imaging Spectrometers is a 12-page brochure that describes a state-of-the-art line available in three different focal lengths (190, 320, and 550 mm). These instruments feature a patented, on-axis triple grating turret and the latest technology in optical design to achieve high throughput and resolution and a large flat field (30 mm by 12 mm).

Instruments S.A.

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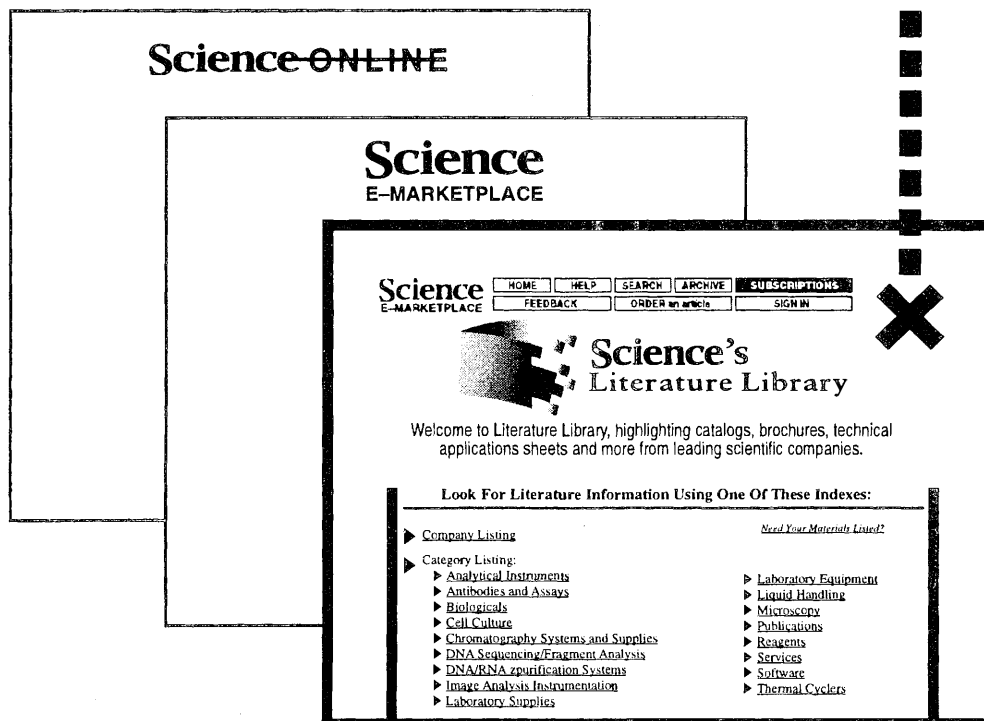
Atomscan Advantage describes a new line of inductively coupled plasma (ICP) spectrometers. The Atomscan Advantage line makes use of an innovative, high-performance optical design. A high-density composite grating delivers high resolution and performance over the entire wavelength ranges (160 to 900 nm). At the heart of the optical design is a galvanometer grating drive that provides speed, accuracy, and reliability; the positioning accuracy of the drive will never deteriorate with use.

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CORNELL UNIVERSITY WEILL MEDICAL COLLEGE

As part of a major enhancement of biomedical research programs and laboratory facilities, Weill Medical College of Cornell University (formerly known as Cornell University Medical College) is establishing a Program in Persistent Infections within a broad initiative in genetic medicine. We are especially interested in candidates who wish to pursue molecular and genetic approaches to host-pathogen interactions in diseases caused by agents such as, but not limited to, *Mycobacterium tuberculosis*, *Helicobacter pylori*, *Chlamydia pneumoniae*, hepatitis C virus, and papilloma and other oncogenic viruses. Expertise in gene expression analysis is welcomed. Candidates for **JUNIOR POSITIONS** should demonstrate the potential for establishing a vigorous, independent research program, and candidates for **SENIOR POSITIONS** should have an outstanding record of productivity. Candidates should have Ph.D. or M.D. degrees. Appointment is anticipated in the Department of Microbiology and Immunology, Chaired by Carl Nathan, M.D., as well as the Program in Genetic Medicine; alternative or additional appointments will be considered.

Recruited faculty will enjoy generous start-up support and occupy new laboratories. Recruits may participate in the Graduate School of Medical Sciences, comprising faculty from the Weill Medical College and the Sloan-Kettering Institute, and in the Tri-Institutional M.D.-Ph.D. Program, comprising faculty from the Weill Medical College, the Sloan-Kettering Institute, and The Rockefeller University.

Applicants should send a curriculum vitae, statement of research interests, and three letters of recommendation to: Bernadette M. Mosellie, Genetic Medicine Recruitment Committee (CN), Box# 27, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021.

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FACULTY POSITION BIOMEDICAL ENGINEERING University of California, Los Angeles

The Biomedical Engineering Interdepartmental Graduate Degree Program (IDP) at UCLA with the collaboration of faculties of the Schools of Engineering and Applied Science, Medicine, and Dentistry and the Divisions of Life and Physical Sciences invites application or nominations from highly qualified persons for permanent faculty positions. Candidates with a Ph.D., D.D.S., and/or M.D. degrees with research and teaching experience are encouraged to apply. Joint appointments between the above academic units are possible depending on the candidate's qualifications. The IDP is particularly interested in candidates with experience in tissue engineering, biomaterials, and biosensors. Applications or nominations including curriculum vitae, list of publications, and three to five selected reprints should be sent to:

Professor John D. Mackenzie, Chair
Biomedical Engineering Search Committee
School of Engineering and Applied Science
7256 Boelter Hall

University of California, Los Angeles
Los Angeles, CA 90095-1600

Website: <http://www.biomedengr.ucla.edu>

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FACULTY POSITION IN CELL AND NEUROBIOLOGY

Tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** position in cell and neurobiology is available. Department of Cell Biology and Anatomy, Louisiana State University Medical Center, New Orleans. A Ph.D. and two to three years of postdoctoral experience required. Applicants must have a solid funding record/potential. Applicants studying genetic and molecular aspects of development are encouraged to apply, but all highly qualified candidates will be considered. Joint appointments in the Neuroscience Center are encouraged. Salary is competitive with ample space and start-up funds. Research facilities are excellent. Send curriculum vitae, research interests, and names of three references to: Dr. R. Ranney Mize, Department of Cell Biology and Anatomy, Louisiana State University Medical Center, 1901 Perdido Street, New Orleans, LA 70112-1393. *LSUNIC is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

DEPARTMENT HEAD. The Department of Anatomy, Physiological Sciences, and Radiology (APR) in the College of Veterinary Medicine at North Carolina State University invites applications and nominations for the position of Department Head. The Head provides leadership to a department of 35 faculty with major research programs in environmental and molecular pathogenetic mechanisms (cutaneous, gastrointestinal, neural, ocular, pulmonary, reproductive); pharmacokinetics; oncology and carcinogenesis; and cell signaling. This person will be responsible for administration of departmental instructional programs and research, as well as clinical service to the Veterinary Teaching Hospital in the disciplines of anesthesiology, pharmacology, and radiology. Required qualifications include a Ph.D. (or equivalent) degree, an outstanding record in extramurally funded research, a strong commitment to teaching and service, demonstrated leadership skills, and eligibility for appointment as a Full Professor. Desired credentials include the DVM (or equivalent) degree. The position is available July 1, 1999. Screening of applications will begin February 15, 1999, and will continue until the position is filled. Send curriculum vitae, and the names, addresses, telephone numbers, and e-mail addresses of three individuals who may be contacted by the Search Committee to provide references. Direct applications and questions to: **Dr. Lance E. Perryman, Chair of the Search Committee, College of Veterinary Medicine, North Carolina State University, 4700 Hillsborough Street, Raleigh, NC 27606.** E-mail: lance_perryman@ncsu.edu. *Affirmative Action/Equal Opportunity Employer. Individuals with disability desiring reasonable accommodations in the application process should contact: Dr. Lance Perryman, Telephone: 919-513-6250; FAX: 919-513-6455; TDD: 919-515-9617.*

FACULTY POSITIONS DEPARTMENT OF NEUROBIOLOGY AND ANATOMY University of Rochester

Applications are invited for tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** positions. The Department maintains a leading role within an extensive multidisciplinary neuroscience community. As part of a parallel institutional initiative, we will recruit new faculty that build upon a strong history and commitment to systems and cellular neuroscience in the areas of sensorimotor and multisensory processing, sensorimotor integration, and adaptive plasticity. Applicants should have a Ph.D. and/or M.D. and should have established an independent research laboratory following training in neuroscience. Successful candidates will participate in teaching activities in the graduate neuroscience program and in the medical school, and will build and maintain a productive, independent, and externally supported research program. Competitive start-up packages are included. Salary is commensurate with rank and experience. Appointments may begin July 1999. Applications, including a curriculum vitae, statement of career goals, at least three letters of recommendation, and several publications, should be sent to: **Gary D. Paige, M.D., Ph.D., Chair, Department of Neurobiology and Anatomy, University of Rochester, 601 Elmwood Avenue, Box 603, Rochester, NY 14642.** *The University of Rochester is an Equal Opportunity/Affirmative Action Employer.*

DEAN OF THE GRADUATE SCHOOL COLORADO STATE UNIVERSITY

Colorado State University invites applications for the position of Dean of the Graduate School. The Dean is expected to champion and promote strong graduate programs and provide leadership in all areas of graduate education. Applicants should have an earned Doctorate at the senior faculty level in one of the University's graduate departments, a record of successful teaching and scholarship, administrative experience, mentoring of graduate students, experience with funding agencies, and excellent communication skills. Applications should include a full curriculum vitae, statement of interest and vision of graduate studies, and the names, addresses, e-mail addresses, and telephone numbers of three references. Applications will be considered until the position is filled. However, applicants must submit materials by March 1, 1999, for full consideration. Submit applications to: **Dr. John C. Raich, Chair, Search Committee for Graduate Dean, College of Natural Sciences, 117 Statistics Building, Colorado State University, Fort Collins, CO 80523-1801.** *CSU is an Equal Employment Opportunity/Affirmative Action Employer.*



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MOLECULAR BIOLOGY

BS/MS Scientist

You will be responsible for recombinant DNA cloning, gene transfection, development of stable cell lines, signal transduction studies, and retrovirus expression. BS in Molecular Biology is required. MS and 3-5 years' experience desirable. Must be a team-oriented individual with strong communication skills. Job Code: 3009

Ph.D. Research Scientist

Serving as the laboratory head, you will join a dynamic team of molecular biology-oriented scientists and focus on the identification and validation of targets for the treatment of allergic and respiratory diseases including asthma and allergic rhinitis. Ph.D. with 2 years' post doctoral experience and a strong background in Molecular Biology required. Experience in yeast-two hybrid, bioinformatics, signal transduction or target gene functional validation desirable. Must be a team-oriented individual with strong communication skills. Job Code: 3010

BIOLOGICAL SCIENCES

INFECTIOUS DISEASES

Ph.D. Sr. Research Investigator

As a lab leader, you will coordinate experimental preclinical evaluation of antibacterial agents using established *in vivo* models of bacterial infection; conduct exploratory research to evaluate and establish new models of clinical relevant human bacterial infections; and refine existing models as needed. In addition, you will lead a team of associate technical staff, provide training and guidance, and assign individuals tasks based on project team goals; interact productively with project team members to identify priorities and report results in a timely manner. Ph.D. with postdoctoral experience and 5 years' industrial or academic experience in the characterization of *in vivo* models of bacterial infection required. Must be a team-oriented individual with strong interpersonal and communication skills, research experience in bacterial pathogenesis, and familiarity with the antibacterial drug discovery/development process. Proven supervisory experience and 5 years' industrial experience in *in vivo* antibacterial research desirable. Job Code: 3012

IMMUNOLOGY

BS/MS Scientist

You will join our drug discovery team in the area of immune enhancement/cancer immunotherapy and immune suppression/organ transplantation. Responsibilities include development of assays for validation of molecular targets and identification of novel immune regulators. BS or MS with 3 years' relevant experience and strong computer skills required. Experience with cellular and molecular immunology assays, protein biochemistry and enzymology, receptor binding and signal transduction, flow cytometry, and tissue culture desirable. Job Code: 3012

Ph.D. Research Scientist

We are seeking an *in vivo* Immunologist to join a multidisciplinary team of scientists dedicated to the discovery of novel immunosuppressive drugs for the treatment of transplant rejection and autoimmune disease. The principal responsibilities of this individual include establishing and validating models of transplantation and autoimmune disease, evaluating *in vivo* pharmacodynamics and disease efficacy of candidate compounds. Ph.D. in immunology or related field with expertise in the characterization of *in vivo* models required. Job Code: 3013

Ph.D. Research Scientist

As a member of the Immunology Discovery team, you will lead a biochemistry laboratory focused on immune enhancement, contribute to ongoing drug discovery programs, identify new drug discovery targets, and support clinical development programs of previously nominated drug candidates. Ph.D. in Immunology, Biology or related field and experience designing experiments to identify novel signaling targets, define the functional role of novel signaling elements, receptors, ligands, and identify appropriate functional assays to select drug candidates required. Must possess strong oral and written communication skills, evidenced by publication history. Strong background in hematopoietic differentiation, molecular signaling in hematopoietic progenitor cells, and biochemistry, as well as experience with T-cell biology and signaling molecules, and basic enzymology and enzyme assays required. Industrial experience desirable. Job Code: 3014

INFLAMMATION

BS/MS Scientist

You will conduct *in vivo* and *in vitro* experiments to validate new molecular targets and test compounds with the inflammation project team; conduct and analyze experiments; discuss results with the supervisor; suggest/plan additional experiments; and present work at the departmental and project team meetings. BS with some laboratory research experience in biological assays and cell culture required. MS and 1-2 years' laboratory experience with *in vitro* and *in vivo* biological assays including cell culture, ELISA, RIA, and *in vivo* models of arthritis desirable. Must be a team-oriented individual with the ability to interact effectively with a variety of individuals. Job Code: 3015

Ph.D. Research Scientist

You will supervise a laboratory with 2-3 associates and perform drug discovery/development research in the area of inflammatory diseases. Ph.D. and post doctoral experience in the evaluation of compounds in *in vivo* models and *in vitro* cell-based assays required. A sound background in pharmacology, understanding of molecular and cellular mechanisms underlying inflammation, strong written and oral communication skills, enthusiasm and a high energy level are essential. Appropriate industrial experience desirable. Job Code: 3016

ALLERGY & RESPIRATORY

Associate Scientist

You will be responsible for the development of models of pulmonary inflammation and *in vivo* pharmacology studies. Requires proficiency in various dosing protocols, tissue collection/processing, and biochemical analysis of samples using methods including enzyme assays, ELISAs, RIAs. BS in Biology and experience with *in vivo* pharmacology and biochemical analyses required; MS and pharmaceutical industry experience desirable. Experience in pulmonary pharmacology or immunology and strong computer skills preferred. Job Code: 3017

Ph.D. Research Scientist

As a member of the Allergy and Respiratory Drug Discovery team, you will lead a biology laboratory, contribute to ongoing drug discovery programs, identify new drug discovery targets, and support clinical development of previously nominated drug candidates. Ph.D. and experience in the design of experiments to identify novel targets; define the functional role of novel receptors, ligands and enzymes; and identify appropriate functional assays to select drug candidates required. Strong oral and written communication skills essential. Experience with chemotaxis assays, cell surface marker upregulation assays, FAX, cell isolation and purification, and basic biochemistry techniques as well as experience with receptor ligand binding assays and basic enzymology and enzyme assays desirable. Job Code: 3018

Ph.D. Research Scientist

We are seeking a Biochemist working in the field of cytokine signal transduction to join an active, multidisciplinary team of investigators in the discovery of novel agents for the treatment of allergic and respiratory diseases including asthma, and allergic rhinitis. Ph.D. in Immunology, Biochemistry, or related field and a minimum of 3 years' post-doctoral signal transduction research experience in an academic or industrial environment is required. Successful candidate will have a demonstrated record of independent and creative research on biochemical pharmacology of cytokine signal transduction. Job Code: 3019

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ASSOCIATE/FULL PROFESSOR INSTITUTE OF MOLECULAR AND GENETIC BIOLOGY University of Florida

As part of the University of Florida's initiative to enhance centers of excellence, the University is seeking three senior faculty members for a new Institute of Molecular and Genetic Biology. The initiative is designed to enhance interactions among innovative programs in genetics that are currently within the Health Science Center, the Institute of Food and Agricultural Sciences and the College of Liberal Arts and Sciences. The new positions are at the Associate and Full Professor levels. Successful candidates must be individuals with vigorous, externally funded research programs and well-established international reputations in their fields. Areas of interest include, but are not limited to, molecular genetics, functional genomics, transgenic biology, biotechnology and biochemistry relevant to prokaryotic, fungal, plant, animal and human systems.

Candidates will be selected for their excellence in fundamental and/or applied research in one of the molecular disciplines and for their desire to participate in creating this new interdisciplinary academic research institute. A strong desire to contribute to program development and enhancement is essential.

Applicants should send a statement of research interests and future plans, a curriculum vita, and the names and addresses of three references. Nominations of individuals with exceptional promise are encouraged.

Applicant screening will begin February 1, 1999, and will continue until the positions are filled. Applications and nominations should be sent to Dr. Robert J. Cousins, Chair, Search Committee, University of Florida, P.O. Box 110130, Gainesville, FL 32611.

The University of Florida is a member of the State University System of Florida, and is an equal opportunity, affirmative action employer. Women and minorities are encouraged to apply. The "government in the sunshine" laws of Florida require that all documents relating to the search process, including letters of application/nomination and reference, be available for public inspection.

POSTDOCTORAL RESEARCH at The Wistar Institute

The Wistar Institute, an independent research organization located on the University of Pennsylvania campus, has NIH Training Grant-supported positions available immediately for postdoctoral research in "Immunobiology of Vaccines" and "Basic Cancer Research." Selected candidates will train with immunologists, virologists, structural biologists and chemists in the field of vaccine design and development.

Candidates must be U.S. citizens or permanent residents with a maximum of three years of postdoctoral training. Minority applicants are strongly encouraged to apply.

If interested, please forward your C.V. and three letters of recommendation to: **the Human Resources Department (indicating research of interest), THE WISTAR INSTITUTE, 3601 Spruce St., Phila., PA 19104.** EOE/AA/M/F/D/V



TWO SENIOR FACULTY POSITIONS

The University of Maryland (College Park) Department of Geography invites applications for **TWO full-time tenured or tenure-track faculty positions, FULL OR ASSOCIATE RANK, starting fall 1999.** Established scholars with strong records in research, teaching and service are invited to apply. Research interests should strengthen current research within the Department. Appointees will teach courses at the graduate and undergraduate levels and participate fully in departmental development. A Ph.D. degree in geography or in a related area, including environmental, biological, computer, or social sciences is required.

The UMCP Geography Department has an international reputation in Earth system science, particularly in the use of terrestrial remote sensing to study Earth system dynamics and an emerging interest in the human dimensions of global change. The department enjoys the collaboration of faculty from many departments on campus that have internationally recognized reputations, including the Institute for Advanced Computer Studies, and it is located in the Washington, D.C. area with access to Federal and international institutes and many scholarly resources.

Applications should include a personal statement of background and experience relevant to the position, research, teaching and service activities, a signed, dated curriculum vitae, up to four reprints of peer-reviewed publications, and names and addresses (including e-mail) of 3-5 referees.

For best consideration applications should be submitted no later than March 1, 1999. Search will continue until suitable candidates are appointed. **Applications from women and minorities particularly sought. The University of Maryland is an Equal Opportunity Affirmative Action Employer.**

Submit applications to: Chair, Search Committee, Department of Geography, 2181 LeFrak Hall, University of Maryland, College Park, Maryland 20742-8225.

Further information on these positions and on academic and research programs of the Department may be obtained from the address above and can be found at <http://www.inform.umd.edu/geog/>

Director of Medical Research

Marshfield Clinic's Medical Research Foundation (MMRF), announces a search for a Director of Medical Research.

Marshfield Clinic is a premier healthcare network of over 570 physicians in 38 locations throughout central, northern and western Wisconsin. Its mission is to serve patients through accessible high quality health care, research and education. In addition to participation in extensive clinical research activities, the Foundation is home to the National Farm Medicine Center, the Center for Medical Genetics, and the Marshfield Epidemiology Research Center.

The position of Director of Medical Research provides an outstanding opportunity for a dynamic individual to provide vision and direction to the foundation. The director will be a leader and mentor for the physicians, scientists, and staff. The candidate for Director of Medical Research must possess a M.D. and/or Ph.D. degree or equivalent and have a record of significant achievements in medical research and administration.

Interested candidates should send their curriculum vitae, in confidence, to: Cindy M. Schuster, Physician Recruitment Manager, Search Committee for Director of Medical Research, Marshfield Clinic, 1000 North Oak Avenue, Marshfield, WI 54449 or call, 1-800-782-8581, extension 93725. Fax 715-389-4889. Sorry, Not an underserved area. An equal opportunity/affirmative action employer, m/f/h/v.

E-Mail: schustec@mfdclin.edu

Website: www.marshmed.org/mc_physrec



MARSHFIELD CLINIC



GRANTS FOR INTERNATIONAL JOINT RESEARCH IN THE AREAS OF MATERIALS, ENERGY, GLOBAL ENVIRONMENT AND INTERNATIONAL STANDARD DEVELOPMENT

The New Energy and Industrial Technology Development Organization (NEDO), a Japanese governmental implementing agency supervised by the Ministry of International Trade and Industry (MITI) of Japan, provides funding for collaborative research through its International Joint Research Program.

This program aims to contribute to the enhancement of the international level of industrial technology as well as to the advancement of international exchange by supporting international joint research teams which conduct superior research.

In addition to supporting international joint research teams which conduct original and innovative basic research in the materials area, international joint research teams which conduct research in the energy, global environment and international standard development areas will be provided with grants in FY1999.

The international standard development area is being newly established in order to contribute to international standardization.

The research in the global environment area will be conducted jointly with the Research Institute of Innovative Technology for the Earth (RITE).

Research Grants will be provided to "International Joint Research Teams" which fulfill the following main requirements:

1. Each team, in principle, must be composed of four or more researchers;
2. Each team must consist of researchers of two or more different nationalities;
3. The research organizations where the team members' major activities take place must be located in two or more countries;
4. Each team must appoint a research coordinator and an accounting coordinator. The accounting coordinator shall be responsible for accounting matters and function as the liaison between the team and NEDO. The accounting coordinator's organization and research location must be located in Japan, and he/she must be able to communicate with NEDO in the Japanese language about all accounting matters. The research coordinator can also hold the post of accounting coordinator.

Research Area	Field of Research	Amount of Each Grant in FY 1999	Number of Themes to be Adopted	Recipient of Applications
Materials	Basic Research concerning the investigation, elucidation and practical use of materials which will result in the creation of new industries.	about 24,000,000 yen	3	NEDO (Note a.)
Energy	(Related to Power Generation) Practical Research on electric power generation technologies using oil-alternative energy, on load leveling technologies and on global environment conservation related to these technologies.	about 30,000,000 yen	4	
	(Efficient Use) Practical research on technologies concerning the rationalization of energy use, such as saving energy (excluding electric power generation technologies).	about 30,000,000 yen	1	
International Standard Development	Practical research aiming at establishment of international standards to contribute to industrial technology.	about 20,000,000 yen	2	RITE (Note b.)
Global Environment	(Practice research) Practical research concerning the production, generation and use of oil-alternative energy (excluding electric power generation technologies) which contributes to conservation and improvement of the global environment.	about 30,000,000 yen	4	

Basic Research in the global environment area will not be provided with grants in 1999.

The application period is from January 18th, 1999, to March 15th, 1999.

No applications will be accepted after March 15th.

Contact for Application forms Request:

Note a. Materials, Energy and International Standard Development area

Industrial Technology Department
New Energy and Industrial Technology Development Organization (NEDO)

Address: P.O. Box 1151, 29F, Sunshine 60 Bldg.
3-1-1 Higashi-Ikebukuro, Toshima-ku,
Tokyo, 170-6028 Japan

Phone No: 81-3-3987-9357
Telefax No: 81-3-5952-0082
E-mail: nedogrant@nedo.go.jp
Homepage: <http://www.nedo.go.jp>

Note b. Global Environment area

Research Proposals Reception Section,
Research Planning Department
Research Institute of Innovative Technology for the Earth (RITE)

Address: 9-2 Kizugawadai Kizu-cho Soraku-gun,
Kyoto, 619-0225 Japan

Phone: 81-774-75-2302
Telefax No: 81-774-75-2314
E-mail: proposal@rite.or.jp
Homepage: <http://www.rite.or.jp>

Please note that the amount of each grant and the number of themes to be adopted may change, and that this grant program is subject to government budget approval.

A research team may submit an application a maximum of two times for a grant on the same subject.

Note: If there are any discrepancies in a submitted application, for example, the applicant did not follow the Application Guidebook or a difference in the research contents from the proposed research area, the application will be considered invalid.

POSTDOCTORAL RESEARCH in Cell and Molecular Biology and Immunology at The Wistar Institute

The Wistar Institute, an independent research organization located on the University of Pennsylvania campus, currently seeks postdoctoral applicants.

DNA Vaccines - A position focusing on the development of optimized DNA vaccines for cancer and infectious diseases in a viral mouse model. Candidates must possess a M.D. or Ph.D. in Immunology or Virology, or from a related discipline such as Pharmacology or Genetics. Projects include: DNA Vaccines to HPV-16 Associated Cancer, and DNA Vaccine Design and Development. Reply to **Dr. Hildegund Ertl**.

Regeneration Biology - A position is available for a developmental biology postdoctoral fellow to study a mouse model of regeneration involving skin, cartilage, bone, and CNS. Experience in molecular biology, in situ hybridization, and immunohistochemical techniques desired. For details see: PNAS 95:11792 (Sept. 1998), Clin Immunol and Immunopath 88:35 (July 1998). Reply to **Dr. Ellen Heber-Katz**.

Signal Transduction - To use molecular genetic, biochemical and cell biologic approaches to study mechanisms of receptor-mediated signal transduction in lymphocytes. Individuals with experience in signal transduction, molecular genetics, cell biology, and/or immunology are especially encouraged to apply to **Dr. Ellen Pure**.

Transcriptional Regulation - Function of histone acetylation by the adaptor GCN5 in transcriptional activation. Studies include genetic and biochemical approaches both in *S. cerevisiae* and in humans, focusing on the mechanism and biological role of protein complexes containing GCN5. Reply to **Dr. Shelley L. Berger**.

Eukaryotic Transcriptional Activation - (1) Mechanisms of eukaryotic transcriptional activation using viral and yeast model systems. (2) Role of EBNA1 in determining the cell cycle-dependent DNA replication of latent Epstein-Barr virus. Individuals with backgrounds in biochemistry, molecular biology or yeast genetics are encouraged to apply. Reply to **Dr. Paul Lieberman**.

Transcriptional Regulation and DNA Repair - Biochemical and molecular characterization of the RNA polymerase II complexes in human cells using a fully defined in vitro transcription system. We are also characterizing the connection of the transcription machinery to that of DNA repair, with specific emphasis on the BRCA1 and BRCA2 proteins. Nature 374:283 (1995), and Nature 381:86 (1996). Experience in molecular biological techniques and protein purification preferred. Reply to **Dr. Ramin Shiekhattar**.

Tumor Immunology - To identify and isolate tumor antigens using antibody phage display. Applicant must have experience with construction and screening of antibody fragment libraries and mammalian cellular antigen libraries. Please send C.V., list of publications and summary of research experience to **Dr. Dorothee Herlyn**.

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. EOE/AA/M/F/D/V.**



Director of Technology

Fast-paced and technically advanced headquarters located in Melville, LI seeks a dynamic professional to work closely with senior management on the assessment of new and existing technologies. As the corporation's strategic resource, you will assist in the development of products and businesses based on the following technologies: High Speed Data Processing (Parallel Processing); sensor technologies; semiconductor chip production and inspection technologies; robotics; and infomatics.

Minimum requirements include extensive related experience and a technical degree as well as premier PC, communication and presentation skills. Any hands-on marketing or product development experience is a plus.

We offer a competitive salary and excellent benefits package. For immediate and confidential consideration, please send your resume with salary history to:

**BHA, Box #6496
437 Madison Ave., 3rd Floor
New York, NY 10022.**

EOE M/F/D/V.

Incyte Pharmaceuticals, Inc., is a leading provider of an integrated platform of genomic technologies designed to aid in the understanding of the molecular basis of disease. Incyte's platform includes database products, genomic data management software tools, and related reagents and services which, Incyte provides to the pharmaceutical and biotechnology industries to assist their drug discovery and development efforts.

Pharmacogenomics Project Managers - Palo Alto

Looking for highly motivated scientific Project Managers who will play a key role in the design and implementation of pharmacogenomics-based projects. Will also be responsible for interacting extensively with research groups within Incyte and our partner pharmaceutical companies.

Requires Ph. D. with at least 5 years post doctoral experience in the fields of molecular biology / molecular pharmacology / bioinformatics. Previous experience within the pharmaceutical industry is desired.

If you recognize these qualities in yourself, we want to hear from you. Incyte offers competitive salaries, an outstanding benefits package and significant opportunities for professional growth. Mail/Fax your resume to Incyte Pharmaceuticals, Attn: HR/REF:SD2203ME; 3174 Porter Drive; Palo Alto, Ca; 94304. FAX: (650) 845-4176. E-mail: employ@incyte.com. EOE. F/M/V. Website: www.incyte.com



Postdoctoral Training Opportunities

Positions supported by NIH training grants in Molecular Endocrinology and the Pharmacology of Drug Abuse are available at Mount Sinai School of Medicine. Research in these areas is defined broadly to include all basic science aspects pertinent to these topics:

**Mount
Sinai**

- *F. Carter Bancroft, Ph.D.*: Cloning and characterization of: 1) transcription factors regulating pituitary gene expression; 2) clinically relevant stage-specific markers for prostate cancer.
- *Kathy Borden, Ph.D.*: Structure function studies of the promyelocytic leukemia protein PML: 1) structure determination by NMR of PML RING complexed to a homeodomain protein which regulates myeloid cell development; 2) functional studies determining how PML regulates the activity of this homeodomain. For further information see Borden et al., (1995) EMBO J. 14 1532; Borden et al., (1995) EMBO J. 14 5947; Borden et al., (1998) J. Virol 72 3819; and Carlile et al., (1998) Biochem. J. 335 691.
- *Diomedes E. Logothetis, Ph.D.*: G-protein-gated channels (potassium and calcium) in midbrain dopaminergic neurons. Requires prior training in electrophysiology. Familiarity with molecular techniques, in both protein and nucleic acid research, is highly desirable.
- *Robert F. Margolskee, M.D., Ph.D.*: Receptors, G-proteins and ion channels involved in sensory transduction in vertebrate taste cells (Nature 381: 796, 1996; Nature 376: 80, 1995; Nature 376: 85, 1995; Nature 357: 563, 1992). 1) analysis of gustducin-phosphodiesterase interactions; 2) analysis of the taste receptor-gustducin interaction; 3) single cell PCR of taste cells; 4) molecular cloning of taste transduction components; 5) generation of transgenic mice expressing altered gustducin. Strong background in molecular biology, protein biochemistry or transgenic technology required.
- *Roman Osman, Ph.D.*: 1) Structure-function relationships of transmembrane G-protein coupled receptors involved in signaling; 2) the structural dynamics and thermodynamics of protein-DNA interactions involved in mechanisms of DNA repair. The research combines experiment and theory, emphasizing modeling, molecular dynamics simulations and quantum chemical calculations.
- *Harel Weinstein, D.Sc.*: Computational molecular biophysics of: 1) structure-function relations in membrane proteins; neurotransmitter receptors and transporters (Protein Engng. 10:1019, 1997; EMBO J. 16:6737, 1997; J.Biol. Chem. 273:10445, 1998); 2) structure and dynamics of protein-DNA complexes in regulation of gene expression (Biophys. J. 75:2411, 1998; J. Comput. Chem. 18:888, 1997; Biophys. J. 73:640, 1997).
- *Ming-Ming Zhou, Ph.D.*: Structural biology of proteins in signal transduction and gene transcription by multidimensional NMR spectroscopy.

Interested candidates who are eligible for NIH training fellowship support (*US citizens or permanent residents*) should send C.V. and names, addresses, and phone numbers of three references to: **Postdoctoral Search Committee, Department of Physiology and Biophysics, Mount Sinai School of Medicine, One Gustave L. Levy Place, Box 1218, New York, NY 10029-6574.** View our faculty bios at www.mssm.edu/physbio/local/primfaclist.html and visit our website at www.careermosaic.com/mountsinai We are an equal opportunity employer fostering diversity in the workplace.

Mount Sinai School of Medicine

**The Most
Exciting
Thing You'll
Discover at
Amgen is
Something
New About
Yourself**



At Amgen, research is our focus, but people are our inspiration. Which is why individual contributions are valued. Diversity is respected. And at Amgen, your knowledge and skills bring unique rewards. Not only will your work serve critical advances in health care, but you'll discover unlimited potential for achievement. With over 18 years of award-winning discovery behind us, Amgen emerges today as one of the world's leading biotechnology companies. Discover Amgen, and you'll discover a world of opportunity at our state-of-the-art headquarters in **Thousand Oaks, California** --- uniquely located about one hour from both Santa Barbara and downtown Los Angeles.

Research Associate

We are seeking an experienced BS/MS scientist to serve in a crucial role within a successful team in our Neuroscience department. You will be involved in cutting-edge molecular research of neurodegenerative diseases including the discovery of novel targets, target validation and assay development for mechanistic studies and small molecule screening.

To qualify, you should have extensive research and molecular biology training including several of the following techniques: molecular cloning, PCR, site-directed mutagenesis, screening of cDNA libraries, RNA preparation, Northern blotting, cell culture, Western blotting, ELISA, metabolic labeling and immunoprecipitation, as well as a thorough understanding of the theoretical basis behind these techniques. You should be able to work independently within a team, to think critically and to document, analyze and present your results. The position requires a BS/MS degree with several years of research experience and excellent interpersonal and communication skills. MS scientists with experience in industry and neuroscience preferred.

At Amgen, your accomplishments are rewarded. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center and three weeks vacation. For immediate consideration, please mail your resume on plain white paper (using standard type and fonts, no bullets, italics, underlining or bolding), to: **Amgen, Staffing, Job Code: 0000000175, P.O. Box 2569, Thousand Oaks, CA 91319-2569**, or e-mail your ASCII text resume to: **jobs@amgen.com** Please consult our Web site at: **www.amgen.com** for information on other career opportunities available at Amgen. Principals only, please. We recognize that diverse perspectives are a key factor in the process of discovery.

EEO/AA Employer M/F/D/V.

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**UConn
Health Center**

Tenure Track Faculty Positions in Genetics and Developmental Biology

The newly created Department of Genetics and Developmental Biology at the University of Connecticut School of Medicine is seeking highly qualified individuals with an outstanding background in developmental genetics of a variety of systems. Areas of interest include but are not limited to morphogenesis and patterning, genetic control of cell growth and differentiation, skeletal development, mouse models of human neurological disorders, nuclear structure and function, DNA replication, recombination and repair and genetic and epigenetic mechanisms of gene regulation.

Applications are invited for positions at the Assistant, Associate or Full Professor level. Departmental faculty will enjoy superb resources including generous start-up funds and space in a new research building. There are state-of-the-art core facilities for mouse transgenics and ES cell manipulation, nucleic acid sequencing, flow cytometry, confocal microscopy, and fluorescence imaging. Faculty will be expected to establish independent and innovative research programs that will attract extramural funding and to actively contribute to a rich scientific environment.

Candidates should apply by submitting a curriculum vitae and names of three references by February 28, 1999 to:

**Marc Lalande, Ph.D.
Professor and Chairman
Department of Genetics and Developmental Biology
The University of Connecticut Health Center
School of Medicine
263 Farmington Avenue
Farmington, CT 06030-1231**



Postdoctoral Fellowships The Molecular Cardiology Program at Penn

Postdoctoral positions are available immediately to study: i) the transcriptional programs that control cardiac myocyte differentiation and adaptation, ii) transcriptional regulation of vascular smooth muscle cell differentiation and response to injury, and iii) gene therapy to treat atherosclerosis. Candidates should have a Ph.D. or M.D. and prior experience in Molecular and Cellular Biology and/or protein chemistry. Send curriculum vitae including the names of three references to:

**Dr. Michael S. Parmacek
Division of Cardiovascular Medicine
University of Pennsylvania
9123 Founders Pavilion
3400 Spruce St.
Philadelphia, PA 19104-4283
FAX 215-349-8017**

*The University of Pennsylvania is an equal
opportunity employer.*

Research

A healthy vision.

SmithKline Beecham, a world class leader in Research and Development, continues to pioneer innovative pharmaceutical and healthcare products and services. We have the following opportunities available in our suburban Philadelphia, PA facilities.

Cell Biologists

Working in our Molecular Virology and Host Defense Department, the selected candidates will be responsible for the development and operation of cellular, biochemical, and molecular assays to profile novel therapeutic agents for hematopoietic, immune, and infectious diseases. You will be responsible for presenting experimental results, and for collaborating with other scientists as part of multidisciplinary drug discovery teams.

To qualify, you must have a BS/MS in a biological science or in molecular biology with at least 3 years post-graduate experience in cell biology, immunology, or hematopoiesis research. Experience with immunoprecipitation and western blotting, proliferation and differentiation assays, RNA manipulation and analysis, and various applications of PCR are required. A broad knowledge and confident command of principles, practices and procedures in molecular biology is highly desirable. Excellent computer, writing and communication skills are also required. (Job Code: C80414S)

Microbial Physiologist/Geneticist

In this position, you will provide scientific direction to our Fermentation Microbiology Section within Microbial and Cell Culture Sciences to produce protein products in support of Discovery and Development. You will initiate and carry forward novel and problem solving research programs based on microbial physiology and genetics as well as provide technical guidance to QA/QC on microbial issues. Supervisory experience managing staff, students, and/or research teams is preferred. We require a Ph.D. with a minimum of 3 years postdoctoral experience in microbial physiology and genetics or other appropriate scientific field with a significant record of achievement in this area. Knowledge of microbial fermentation processes and Good Manufacturing Practices a plus. (Job Code: H80378)

Cell Culture Scientist

In this position, you will manage direct reports in the Microbial and Cell Culture Sciences group to support Discovery research. You will perform process optimization experiments to scale up mammalian and insect cell culture systems. In addition, you will act as a liaison to Discovery groups, Protein Biochemistry members, and UK colleagues to coordinate project efforts and optimize protein quality and expression. You will conduct experiments with minimal supervision, and provide updates at Project Team Meetings. The candidate should have a BS and 5 years or a MS and 3 years relevant experience with excellent aseptic technique and technical skills with cell culture expression systems. Familiarity with eucaryotic cell culture bioreactors and computer software is desired. (Job Code: H81777)

Cell Culture Investigator

In this position, you will manage the microbial and cell culture banking activities in the Microbial and Cell Culture Sciences group in support of Discovery and Development. You will also need to: assume responsibility for GMP activities as related to banking; maintain GLP/GMP project notebooks and forms; understand and comply with FDA and ICH regulations and guidelines; and lead research efforts toward the development of improved banking procedures. We are looking for a candidate with a Ph.D. and 2 years experience, or a MS degree with 5 years experience, or a BS with 10 years experience in Microbiology, Cell Biology or Biochemistry. The candidate will manage 7 people in the microbial banking and cell culture areas. An understanding of experimental design approaches and competency in use of computers and maintenance of databases is desired. (Job code: H81775)

SmithKline Beecham offers a competitive benefits and compensation package, as well as a challenging work environment. Please forward your resume to: SmithKline Beecham Pharmaceuticals, (Job Code), PO Box 40047, Philadelphia, PA 19106. Indicating Job Code is essential. For more information and to apply online, visit our website at www.sb.com/careers

Realize your potential



SmithKline Beecham
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Developing talent through equality of opportunity, MF/D/V.

every day I get a little closer...



...to a breakthrough that will change someone's life.

and I think, while some people work for a living,

I spend my days working to make life better.

what a difference. what an opportunity.

Research Associate Pharmacology & Cell Biology

We currently have an opportunity for a research associate to join our Pharmacology & Cell Biology Department.

In this role, you will participate in new oncology projects, with an emphasis on the role of proteases in tumor progression. You will design/construct vectors for expression in mammalian cells; establish stable cell lines and transient expression systems to serve as cell-based assays for drug screening; implement and validate cell-based assays; perform biochemical analysis of proteins and other cellular components (ELISA, Western blots, flow cytometry, immunofluorescence). We are seeking individuals with expertise in cell biology, molecular biology and biochemistry who can work independently and as part of a team. Your excellent interpersonal and communication skills will help ensure your success in this position. This position requires a BS/MS and at least 3 years' laboratory experience.

We offer an extremely competitive salary, full benefits, and career advancement opportunities within a progressive, growing company. Please forward your resume to: Axys Pharmaceuticals, HR Department, Attn: Job# N98-102-SCI, 180 Kimball Way, South San Francisco, CA 94080; email: human_resources@axyspharm.com. EOE

AXYS Pharmaceuticals is a leader in the integration of drug discovery technologies from gene identification through clinical development. We are focused on the discovery of small molecule therapeutics, and have several promising research collaborations with world-class pharmaceutical companies.



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**THE OPPORTUNITY OF A LIFETIME.
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CHEMICAL/BIOLOGICAL DEFENSE – DUGWAY PROVING GROUND

Dugway Proving Ground, Utah, the Department of Defense designated test center for chemical/biological warfare protective equipment has 2 challenging, important and high visibility positions open as the Chiefs of its Chemical and Life Sciences Divisions. The Chemical Division employs approximately 75 scientists and technicians in state-of-the-art \$47 million facilities executing a \$12 million test budget. The Life Sciences Division employs 45 scientists and technicians in newly constructed laboratories (including BL-3) conducting about \$8 million in testing. These are both exciting opportunities to lead critical national programs at a time when there is intense concern over the threat of chemical or biological agent use by foreign nations or terrorists. The positions each require strong and proven technical and management skills. For the Chief of the Chemical Division, a Ph.D. degree in chemistry is desired along with experience with chemical surety materials. Likewise, for the Chief of Life Sciences Division, a Ph.D. degree in Microbiology or a related discipline is desired along with experience in biocontainment. For both positions, some experience in testing and evaluation and a knowledge of the DoD acquisition system would be pluses. These positions are both civil service career at the GS-15 level with annual salaries from \$79,162 – \$102,907. Incumbents are entitled to health and life insurance as well as paid leave and a retirement program.

Dugway Proving Ground is located approximately 80 miles from Salt Lake City, Utah. The proving ground is almost 800,000 acres in size and has a physical plant valued at over \$500 million. Dugway plays an important role in the process used by the Department of Defense to develop and field equipment and procedures for protecting U.S. service men and women from chemical or biological attack. Dugway provides similar assistance in the area of counter terrorism and consequence management for the civilian sector. This latter role is expected to rise dramatically in the next few years, offering opportunities to lead in a growth period. Dugway is physically remote, but entirely self-sufficient as regards housing and community needs. Nevertheless, many of its workforce choose to commute from outside communities. The Dugway workforce is on a four day, 40 hour workweek from Monday through Thursday. Utah is rich in outdoor recreation opportunities and Salt Lake City is cosmopolitan, with many cultural activities. Dugway prides itself on service and professionalism.

Complete text of announcements and how to apply will be available on opening dates on the Internet at <http://www.usajobs.opm.gov> or <http://www.cpoc.army.mil/DEU/jobs/DEU%20Jobs.asp> by calling (435)831-2181. The position titles are Supervisory Chemist, GS-1320-15 and Biological Science Administrator, GS-401-15. U.S. citizenship is required. Incumbents will be entitled to health and life insurance. Dugway Proving Ground is an Equal Opportunity/Affirmative Action Employer.

RESEARCH

Cephalon, Inc., headquartered in West Chester, PA, is an international biopharmaceutical company that is dedicated to discovery, development and marketing of innovative products to treat neurological diseases and cancer.

RESEARCH SCIENTIST Drug Development/Formulation Development Dept.

Ph.D. in Pharmaceuticals or equiv. 2+ yrs relevant pharmaceutical exp. Development and delivery systems and dosage forms for pre-clinical and clinical studies, interaction with discovery chemists for screening of potential development compounds, evaluate/improve bioavailability of drug compounds through formulation/ delivery systems, pursue innovative delivery technologies. **Position Code PP**

RESEARCH SCIENTIST Drug Development/ Analytical Chemistry

B.S./M.S. in Chemistry or related field. B.S. with 10+ yrs exp. or M.S. with 6+ yrs relevant pharmaceutical experience. Test Method development, method validation or analytical investigations. **Position Code SF**

RESEARCH SCIENTIST Oncology

Ph.D. 3+ yrs experience. Demonstrated expertise with in vitro and in vivo models of tumor biology. Experience in the areas of signal transduction, angiogenesis or protease technologies preferred. **Position Code BR**

RESEARCH SCIENTIST Research Biochemistry/ New Lead Discovery

Ph.D. 2+ yrs relevant post doc research, strong background in biochemistry, and excellent oral and written communication skills. Responsibilities to include enzyme characterization, development and implementation of high-throughput assays, and analysis of enzyme-inhibitor interactions. The candidate will participate in multidisciplinary drug discovery teams focused on molecular targets in neurology and oncology. Experience in drug discovery environment is desirable. **Position Code MA**

ASSISTANT LABORATORY TECHNICIAN

H.S. diploma or equivalent. Entry level position responsible for all aspects of animal care. Will assist with general facility sanitation. **Position Code EM**

Cephalon provides competitive salaries and a comprehensive benefits package. Please send your resume indicating POSITION CODE and salary requirements to: **Recruitment Manager, Cephalon, Inc., 145 Brandywine Parkway, West Chester, PA 19380-4245.**



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**Postdoctoral Fellowship in
Molecular Genetics of Phos-
pholipid Metabolic Enzymes**

Laboratory of Neurosciences at the National Institute on Aging, National Institutes of Health (NIH), Bethesda, MD, seeks a broadly trained molecular biologist/geneticist to examine gene regulation of enzymes involved in brain phospholipid fatty acid metabolism. Position requires in-depth knowledge of molecular genetic techniques involving general knockout methods, cloning, Northern and Southern blot analysis, in situ hybridization, quantitative PCR, and demands experience working with genomic DNA. Requirements: Ph.D. within last 5 years. Send CV and pertinent reprints to: Dr. Stanley I. Rapoport, Laboratory of Neurosciences, NIA, Bldg. 10, room 6C103, NIH, Bethesda, MD 20892-1582; FAX 301-402-0074. NIH is an Equal Opportunity Employer.

**POSTDOCTORAL RESEARCH
ASSOCIATE OPPORTUNITIES
WAYNE STATE UNIVERSITY
DEPARTMENT OF PATHOLOGY**

Y.Q. CHEN tumor suppressor genes & prostate cancer	F. SARKAR molecular biology of solid tumors
M.L. CHER prostate cancer & bone metastasis	L. SCHUGER smooth muscle differentiation
R. FRIDMAN metalloproteinases & tumor metastasis	S. SHENG tumor suppressor genes & tumor invasion
H.R. KIM growth factor signaling & apoptosis	A.A.F. SIMA diabetes and dementia neuropathology
T.H. KUO mechanisms of cell death	J.R. TURNER tight junction regulation & GI cell physiology
A. RAZ mechanisms of cancer metastasis	R. VANDERHEIDE cell injury & adaptation cardiac pathology
K.B. REDDY signal transduction & breast cancer	J. VIRGIN chromosomal instability & prostate cancer

Please contact investigators at: Dept. of Pathology, 540 E. Canfield, Detroit, MI 48201
www.med.wayne.edu/Pathology/pathresearchers.html
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**NATIONAL CANCER INSTITUTE
DIVISION OF EXTRAMURAL ACTIVITIES
OFFICE OF REVIEW, REFERRAL AND
PROGRAM COORDINATION
ROCKVILLE, MARYLAND**

OPENING DATE: 12/21/98

CLOSING DATE: 2/5/99

Announcement Number: CA-98-1963

**ASSOCIATE DIRECTOR FOR REVIEW, REFERRAL AND
PROGRAM COORDINATION**

The Associate Director for Review, Referral and Program Coordination (RRPC) will provide leadership, oversight, and coordination of the major referral, review and program coordination activities in the National Cancer Institute. The Associate Director for Referral, Review and Program Coordination will assume the tasks of planning, directing and coordinating staff and resources to meet review workloads; of maintaining up-to-date standing policies and procedures; and of editing, tracking and coordinating the development and release of RFAs, RFPs, and Program Announcements with the receipt, referral, and review of applications within the Division of Extramural Activities.

The Associate Director manages a budget of approximately \$7 million and oversees a staff of approximately 75, working within 3 distinct organizational units. Staff include Ph.D./M.D. level Health Scientist Administrators, mid-level professional staff, and grants/contracts technical support staff. He/she works closely with NCI leadership to develop cohesive referral, review and program coordination functions for the NCI. The Associate Director coordinates, directs, and evaluates the NCI's efforts in planning, policy setting, operation and application of programs as they relate to the referral, review, and program coordination activities of the NCI.

SALARY/BENEFITS:

Senior Executive Service Appointments - Maximum compensation of \$151,800 allowable (The annual basic Senior Executive Salary ranges from \$99,200 to \$118,400. A one-time lump-sum recruitment bonus of up to 25% of basic salary may be paid. Future compensation may also include an annual retention allowance up to 25% of basic salary. Total compensation, however, may not exceed the maximum payable amount of \$151,800).

Other Appointment Mechanisms and Incentives - May apply in individual circumstances based on experience and expertise with total salary and incentive compensation to be negotiated.

Benefits - Health and life insurance options, retirement, savings plans, paid holidays, and vacation and sick leave.

Applications will be accepted from all qualified persons, including PHS Commissioned Corps Officers and individuals with SES reinstatement eligibility. The individual selected, if not presently in the SES, must serve a one-year probationary period.

Applicants must meet the qualifications requirements. Applicants will be further evaluated on the degree to which they possess these requirements. A copy of the requirements may be obtained by contacting Ms. Toni McKeown in the Human Resources Management and Consulting Branch, NCI, at (301) 402-2812. Applicants are strongly encouraged to obtain this information.

**Applications/resumes are to be sent to Ms. McKeown at:
National Cancer Institute
Human Resources Management and Consulting Branch
6120 Executive Boulevard EPS/Room 550
Rockville, Maryland 20852-7211**

All applicants will receive consideration without regard to race, color, gender, national origin, age, religion, disability or sexual orientation.

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POSITIONS OPEN

TENURE-TRACK FACULTY POSITION UNIVERSITY OF UTAH Department of Pharmaceutics and Pharmaceutical Chemistry

The University of Utah invites applications for a tenure-track **ASSISTANT PROFESSOR** position in pharmaceutics and pharmaceutical chemistry ([website: www.pharmaceutics.utah.edu](http://www.pharmaceutics.utah.edu)). Candidates must have a Ph.D. or equivalent degree. Preference will be given to candidates with a strong background in basic sciences (physical chemistry and biophysics) and with interdisciplinary research interests and experience involving biological aspects of pharmaceutics and drug delivery. Candidates in other areas will also be considered.

She/he will be expected to develop an independent research program and to teach both graduate and undergraduate courses in the College of Pharmacy. Interested individuals are invited to submit a complete curriculum vitae; names, mailing, FAX/telephone, and e-mail addresses of at least three references; a short description of current research and teaching activities; and a statement on career goals to: **Faculty Search Committee, Department of Pharmaceutics and Pharmaceutical Chemistry, 201 Skaggs Hall, University of Utah, Salt Lake City, UT 84112**. The review process will begin March 1, 1999, and continue until the position is filled. Questions may be addressed to: **J. Kopecek, Department Chairperson, Telephone: 801-581-7211; e-mail: jindrich.kopecek@m.cc.utah.edu**.

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

SEVERAL POSITIONS IN BIOMETRY AND EPIDEMIOLOGY Medical University of South Carolina

The Department of Biometry and Epidemiology (DBE) at the Medical University of South Carolina (MUSC) is engaged in research and graduate education in biostatistics, epidemiology, and biomedical systems analysis. DBE furthermore collaborates with the clinical and basic science departments on campus. Reflecting the rapid growth of MUSC into a major research institution, DBE has been given approval for a significant expansion. It is expected that several tenure-track positions will be available, which all will involve graduate-level teaching and extramurally funded research. Most positions will be at the **ASSISTANT PROFESSOR** level, but qualified individuals may be hired at **HIGHER** levels, commensurate with the quality and extent of their educational background and work experience. Evaluation of applications will begin March 1, 1999, but the search will remain open until all positions are filled. Applications should include a résumé with bibliography, three letters of reference, three representative reprints, and a brief description of career objectives. They should be addressed to: **Eberhard O. Voit, Professor and Chair of Biometry Search Committee, Department of Biometry and Epidemiology, Medical University of South Carolina, 135 Rutledge Avenue, Suite 1148, P.O. Box 250551, Charleston, SC 29425**. E-mail: voiteo@musc.edu.

MUSC is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION UNIVERSITY OF MICHIGAN DEPARTMENT OF PHYSIOLOGY Integrative Biology Functional Analysis of Genetically Engineered Animals

We seek to recruit a tenure-track **JUNIOR FACULTY MEMBER** who uses modern tools of genetic engineering (gene targeting/transgenesis/gene transfer) to study physiological processes in the context of the whole animal. The new faculty member will also contribute to the teaching mission of the department. In addition to a competitive start-up package, the successful candidate will play an important role in a new interdepartmental Center for Integrative Biology, and also compete for a position in the University of Michigan's Biological Scholars program (see 20 November 1998 *Science*). Applicants should send (1) a summary of research accomplishments and future plans, (2) curriculum vitae, and (3) arrange for three references sent to: **Chair: Integrative Biology Search, Department of Physiology, 7744 Medical Science II, University of Michigan, Ann Arbor, MI 48109-0622**.

University of Michigan is an Equal Opportunity/Affirmative Action Employer committed to achieving diversity among its faculty and staff.

POSITIONS OPEN

ASSISTANT PROFESSOR DEPARTMENT OF GROWTH AND DEVELOPMENT Harvard School of Dental Medicine

The Department of Growth and Development is currently pursuing a significant expansion of its research program under the direction of the new Chair, **Dr. Leslie Will**. At this time we invite applications for a faculty position at the level of Assistant Professor.

We seek an individual with research and teaching expertise in craniofacial biology, including one or more of the following areas: bone biology, craniofacial genetics and morphogenesis, tooth development, and neural crest cell biology. Appropriate resources for the successful development of a research program are available. Candidates must have a Ph.D. or equivalent and a strong postdoctoral training experience. Preference will be given to an outstanding candidate who has a solid publication record, is supported by a federally funded grant, and is committed to teaching of students and Postdoctoral Fellows.

Applicants should submit a complete curriculum vitae, a description of research interests and goals, and the names of three references to: **Dr. Bjorn R. Olsen, Chair of the Search Committee, Harvard-Forsyth Department of Oral Biology, Forsyth Dental Center, 140 The Fenway, Boston, MA 02115**. FAX: 617-437-9822; e-mail: bolsen@forsyth.org. The starting date for this position is September 1, 1999. For additional information you may Telephone: 617-262-5200, ext. 303.

The Harvard School of Dental Medicine/Harvard University is an Equal Opportunity Employer and encourages applications from minority group members and women.

Rhode Island College invites applications for the following anticipated **ASSISTANT PROFESSOR**, full-time, tenure-track vacancies beginning fall 1999.

Biology (biology education). Joint appointment in educational studies. Teach general biology, secondary/middle-level teacher education field-based courses, and conduct research on the effectiveness of laboratory instruction and/or related issues in biology education. Required: Doctorate in the biological sciences or science education; teaching experience at either the college or secondary/middle school level. (Search Code: Biology.)

Physiology. Biology Department. Teach courses in human physiology; may develop courses in a specialty such as comparative physiology, pathophysiology, or neuroscience. Required: Ph.D. in the biological sciences; demonstrated ability to maintain an ongoing research program suitable for undergraduate/graduate student participation. Preferred: College teaching experience; familiarity with allied health programs. (Search Code: Physiology.)

Applications must be received by February 15, 1999. Mail or FAX cover letter stating teaching and research interests (e-mail not accepted), résumé, and three current letters of reference to: **Office of Human Resources, Rhode Island College, 600 Mt. Pleasant Avenue, Providence, RI 02908**, Attention: (indicate appropriate "Search Code" here). FAX: 401-456-8717; TDD: 401-456-8216. Visit our website: <http://www.ric.edu>.

MOLECULAR BIOLOGY/BIOCHEMISTRY UNIVERSITY OF MARYLAND, BALTIMORE

Full-time tenure-track or tenured faculty position is available for an individual who has broad expertise in biochemistry with an emphasis on molecular mechanisms. The position is primarily at the **ASSISTANT** or **ASSOCIATE PROFESSOR** levels, but outstanding candidates at any level will be considered. Successful candidates will have a Ph.D. or equivalent, a record of outstanding research achievement, and a demonstrated ability to attract external funding. The selected candidate will be expected to sustain a vigorous research program preferably in salivary gland function or bone biology, interact with basic science faculty in other departments, schools, and Investigators on our health sciences campus. Applicants should send a curriculum vitae, copies of their two most significant publications, brief descriptions of present research and future research plans, and the names of three to five individuals from whom recommendations can be obtained, to: **Dr. Leslie P. Gartner, Chair, Search Committee, Department of Oral and Cranial Facial Biological Sciences, Cell and Molecular Biology Tract, University of Maryland, Baltimore, 666 West Baltimore Street, Baltimore, MD 21201**. We especially encourage women and minorities to apply. The University of Maryland is an Affirmative Action/Equal Employment Opportunity/ADA Employer.

POSITIONS OPEN

ENVIRONMENTAL GEOLOGY/ HYDROLOGY/GEOCHEMISTRY

Hobart and William Smith Colleges seek a new colleague to teach environmental geology and, in alternate years, hydrogeology, limnology, and/or geochemistry. That person will also be expected to teach in the Colleges' general curriculum and to play a major role in the Colleges' Environmental Studies Program. Faculty members in the Department are research-active and strongly encourage undergraduate research. The position is **TENURE-TRACK**. For more information about the department and this position see [website: www.hws.edu/aca/depts/geo](http://www.hws.edu/aca/depts/geo). We will begin reviewing applications on March 1, 1999.

Research on nearby navigable waterways is possible with the Colleges' well-equipped, 65-foot research vessel, the HWS Explorer.

Send correspondences, letter of application, and curriculum vitae and have three letters of recommendation sent to:

**Geoscience Search Committee
c/o Donald Woodrow
Hobart and William Smith Colleges
Geneva, NY 14456
Telephone: 315-781-3604
FAX: 315-781-3860
E-mail: woodrow@hws.edu**

We actively seek applications from underrepresented groups and do not discriminate on the grounds of race, color, religion, sex, marital status, national origin, age, disability, veteran status, or sexual orientation.

NON-TENURE-TRACK FACULTY POSITION available to study pathogenesis of asthma-related pulmonary disorders, using transgenic mouse models. Candidate should have experience in immunology, pulmonary physiology, and/or molecular biology. Evidence of research productivity and ability to secure grant support will be favorably regarded. Send curriculum vitae and references to: **Fred Finkelman, M.D., The University of Cincinnati College of Medicine, c-mail: ffinkelman@mem.po.com; FAX: 513-558-3799**.

POSTDOCTORAL POSITIONS available to study (1) immunopathogenesis of occupational asthma and related disorders; and (2) pathogenesis of pulmonary vasculitis in patients with asthma, using transgenic mouse models. Candidate should have experience in immunology, pulmonary physiology, and/or molecular biology. Future advancement to a faculty position is possible. Send curriculum vitae and references to: **Fred Finkelman, M.D., The University of Cincinnati College of Medicine, c-mail: ffinkelman@mem.po.com; FAX: 513-558-3799**. *University of Cincinnati is an Equal Opportunity Employer.*

JUNIOR FACULTY POSITION

The Division of Neurobiology at the Barrow Neurological Institute invites applications for a faculty position at the rank of **ASSISTANT STAFF SCIENTIST**. A candidate is sought who is capable of sustaining a grant-supported research program in an excellent research environment. Minimum of two years of postdoctoral experience required. Preference will be given to candidates whose interests interface well with those of the current faculty. These interests include the organization and function of motor systems, motor learning, birdsong learning and production, and the molecular and cell biology of nicotinic receptor systems. Send letter of interest, summary of accomplishments, curriculum vitae, and a list of at least three references to: **James R. Bloedel, Chairman, Division of Neurobiology, Barrow Neurological Institute, 350 West Thomas Road, Phoenix, AZ 85013**. E-mail: jancarey@chw.edu. *Equal Opportunity Employer.*

DIRECTOR OF VECTOR CORE INSTITUTE FOR HUMAN GENE THERAPY University of Pennsylvania Health System

Manage a research laboratory that develops vectors and services the research community. Ph.D. in virology or molecular biology with proven management skills required. Hired as senior staff with adjunct faculty appointment. Interested applicants should forward cover letter and curriculum vitae to: **James M. Wilson, M.D., Ph.D., Director, Institute for Human Gene Therapy, Wistar Institute, Room 204, 3601 Spruce Street, Philadelphia, PA 19104-4268**. E-mail: wilsonjm@mail.med.upenn.edu.

Affirmative Action/Equal Opportunity Employer.

HEAD DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

The University of Illinois at Chicago (UIC) College of Medicine invites nominations and/or applications for the position of Head, Department of Biochemistry and Molecular Biology. The UIC College of Medicine is the largest medical school in the nation and is part of Chicago's Westside Medical Center, well recognized for its public and private health care institutions and research facilities. UIC is located just west of the Chicago Loop area and is the largest public comprehensive university in Chicago. The Department, one of six basic science departments within the College, has fifteen full-time faculty and fifteen affiliate faculty with well-funded research programs. The Department has responsibilities for a graduate degree program and for teaching medical students. Research programs in the Department span a variety of interdisciplinary areas including regulation of gene transcription, embryonic development and differentiation, cell cycle regulation and oncogenesis, regulation of anti-tumor immune responses, signal transduction, and structural biology.

Candidates for this position should have a Ph.D. and/or M.D. degree and a distinguished record of scholarly research and academic activities. The candidate will be expected to maintain an outstanding research program in the general areas of contemporary biochemistry, molecular biology, and/or molecular medicine, and to administer a comprehensive agenda of Department research and teaching activities. Individuals interested in this position should submit a letter of application, curriculum vitae (including a summary of research activities) and three references to: **Bellur S. Prabhakar, Ph.D., Chair, Biochemistry and Molecular Biology Department Head Search Committee, Professor and Head Department of Microbiology and Immunology University of Illinois College of Medicine 901 S. Wolcott Avenue (M/C 790) Chicago, Illinois 60612-7344.**

University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

CORNELL UNIVERSITY COLLEGE OF VETERINARY MEDICINE DEPARTMENT CHAIR DEPARTMENT OF BIOMEDICAL SCIENCES

The Cornell University College of Veterinary Medicine invites applicants for the position of Chair of the newly formed interdisciplinary Department of Biomedical Sciences. The department consists of 57 faculty members with expertise in anatomy, physiology, and pathology. The successful applicant will be a tenured member of the department and be expected to lead the department to new heights in veterinary education, research, and professional service.

Requirements include an advanced degree in the biomedical sciences; demonstrated academic leadership; and achievements in teaching, research, and service. The successful candidate will be a scholar of recognized stature with leadership abilities, managerial skills, and an understanding and commitment to the educational goals and approach, and research and service missions of the department.

This individual will lead by example in all areas of responsibility as department chair. He or she will specifically: provide academic leadership and administrative support for the department; develop and implement realistic and ambitious goals to strengthen both departmental and college programs; recruit and retain excellent faculty; encourage and provide continuous opportunity for professional development of faculty and staff; promote interdepartmental programs in both the college and the university; maintain scholarly activities; and oversee departmental finances.

Review of candidates will commence March 1, 1999 and will continue until the position is filled. Interested candidates should submit a letter of introduction outlining career goals and professional interests, a curriculum vitae, and names and addresses of three references to:

**Dr. Dorothy Ainsworth
Chair, Search Committee
c/o Ms. Wendy Roberts
Box 44
College of Veterinary Medicine
Cornell University
Ithaca, NY 14853-6401
Facsimile: (607) 253-3701
E-mail: war2@cornell.edu**



Cornell University is an equal opportunity/affirmative action employer/educator.

Postdoctoral Research at Southern Research Institute

The Drug Discovery Division of Southern Research Institute has several immediate openings at the Postdoctoral Research Fellow or Research Associate level. The division performs over \$6 million of NIH-funded basic research aimed at target identification and the discovery of novel pharmaceutical agents for the treatment of cancer, viral diseases, bacterial diseases, cardiovascular diseases, and for prevention of or relief from drug addiction. Areas of specialty include: cancer biology, purine and pyrimidine biochemistry, retinoid biochemistry, protein crystallography, organic synthesis, and mycobacteriology. The Drug Discovery Division has advanced the development of several technologies, including promising new cancer drugs, a novel gene therapy approach to the treatment of cancer, and a technical breakthrough in lipoprotein crystallography that may lead to new cardiovascular therapies.

Southern Research Institute, a not-for-profit research organization, has revenues of approximately \$50 million and employs approximately 550 professional, technical and support personnel to conduct research through grants and contracts with the National Institutes of Health and other governmental and commercial clients. As a diversified research organization, we offer the opportunity to work in state-of-the-art facilities and to interact with a wide range of experts from many fields of interest.

Southern Research Institute, as part of the large biomedical research community in Birmingham, Alabama, is committed to providing a stimulating and rewarding work environment. Close proximity to the University of Alabama in Birmingham allows for interactions with members of the UAB basic science departments, Comprehensive Cancer Center, Cell Matrix and Adhesion Center, and Center for Macromolecular Crystallography. Birmingham has a high standard of living afforded by a moderate climate, beautiful wooded terrain, outstanding residential communities and schools, world-class healthcare, below average cost of living, and a vibrant arts and entertainment scene. Southern Research Institute offers an excellent compensation and benefits package.

We have the following immediate openings for individuals with excellent oral and written communication skills, a Ph.D. degree in one of the biological sciences, and 0-5 years of postdoctoral experience:

Molecular Biology, Position # 455 - Experience required in molecular and cellular biology to conduct independent basic research in the area of breast cancer molecular tumor biology. Research will focus on exploring the mechanisms underlying the acquisition of hormone independence, antiestrogen resistance and a metastatic phenotype in the laboratory of Dr. F.G. Kern. See Zhang et al., *Oncogene* 15:2093-2108 (1997); Zhang et al., *Cancer Res.* 58:352-361 (1998); McLeskey et al., *Clin. Cancer Res.* 4:697-711 (1998). Experience in growth factors, signal transduction, steroid receptors or angiogenesis is preferred.

Protein Crystallography, Position # 507 - A unique opportunity to carry out cutting-edge research in lipoprotein structural biology in the laboratory of Dr. D.W. Borhani. Research will focus on the high-resolution structure determination of apolipoprotein A-I, the crystallization of other lipoproteins, and the crystallization of reconstituted apo A-I/lipid HDL particles. See Borhani et al., *Proc. Natl. Acad. Sci. USA* 94:12291-12296 (1997). Candidate must be highly motivated and accomplished in the determination of protein crystal structures. Experience in crystallization of membrane proteins or lipoproteins complexes is especially desirable.

Biological Chemistry, Position #535 - Challenging opportunity to design and perform research to characterize purine metabolism in mycobacteria in the laboratory of Dr. W.B. Parker. The project will involve purification and analysis of purine metabolic enzymes, characterization of the metabolism and mechanism of action of nucleoside analogs in mycobacteria and human cells, and interaction with organic chemists in the development of novel anti-mycobacterial agents with special focus on *Mycobacterium tuberculosis*. Background in biochemistry, microbiology, or a related discipline, preferably related to purine metabolism in mycobacteria is desired. Recent representative publications include: Bennett et al. *Antimicrob. Agents Chemother.* 42:1045-1051 (1998); Parker et al. *Biochem. Pharmacol.* 55:1673-1681 (1998).

Please send your resume to **Sheryl H. Brown, Human Resources** (please list position number), P.O. Box 55305, Birmingham, AL 35255-5305. Phone: (205) 581-2512. Fax: (205) 581-2200. E-mail: s.r.brown@sri.org. EOE/AA

POSITIONS OPEN

ASSISTANT PROFESSOR ENVIRONMENTAL MICROBIOLOGIST

The Department of Microbiology and Molecular Genetics, Oklahoma State University, is redirecting the search for a tenure-track faculty position at the Assistant Professor level to begin August 17, 1999. Appointment is for nine academic months, with a nationally competitive salary and start-up funds. The successful candidate is expected to participate in the undergraduate microbiology (e.g., microbial ecology), cell and molecular biology curriculum; develop a graduate course in his/her specialty; and supervise M.S. and Ph.D. students. We seek candidates with a strong potential to establish extramurally supported research with interest in applying modern techniques to the investigation of fundamental problems in environmental, prokaryotic, or eukaryotic microbiology (ecology/evolution/physiology/genetics). A Ph.D. degree, postdoctoral experience, and demonstrated expertise in the area are required. The Department of Microbiology and Molecular Genetics consists of 10-plus faculty and conducts graduate and undergraduate programs averaging 23 and 150 students, respectively. Additional information about the Department, the University, and the Stillwater area can be found on our website: <http://microbiology.okstate.edu>. Interested applicants should submit a curriculum vitae, research and teaching statements, and have three recommendation letters sent to: R. A. Prade, Chair, Microbiology Search Committee, Department of Microbiology and Molecular Genetics, 306 LSE, Oklahoma State University, Stillwater, OK 74078-3020. Deadline for applications is March 15, 1999.

Oklahoma State University is an Affirmative Action/Equal Opportunity Employer. Applications from women and minorities are particularly welcome.

ASSISTANT PROFESSOR BIOLOGY

Montana State University-Billings Billings, Montana

Biology. Tenure-track Assistant Professor, fall 1999. Ph.D. in ecology or zoology with interests in environmental sciences, evidence of high-quality college teaching experience, and potential for productive research in an undergraduate, liberal arts setting are required. Duties will include teaching environmental ecology (for the environmental studies program), advanced and introductory ecology and zoology, and introductory biology. Establishment of a research program in ecology involving undergraduates is expected. A commitment to undergraduate science education for majors, non-majors, and future teachers of science is also essential. Experience and/or interest in science education is desirable. Salary dependent on experience and on collective bargaining agreement. Send letter of application, current curriculum vitae, copies of graduate and undergraduate transcripts, statement of teaching philosophy, description of research interests, and three letters of professional reference to: Chair, Biology Search #99-4, Human Resources Office, Montana State University-Billings, 1500 North 30th Street, Billings, MT 59101-0298. Telephone: 406-657-2278; FAX: 406-657-2120; website: <http://www.msuhillings.edu>. Review of applications to begin February 1, 1999, and will continue until position is filled. *Equal Employment Opportunity/Affirmative Action/ADA.*

PLANT BIOLOGIST TEXAS A&M UNIVERSITY-COMMERCE

Tenure-track ASSISTANT PROFESSOR. Ph.D. in biological sciences with expertise in vascular plant populations. Beginning August 26, 1999. Knowledge of plant population biology and biostatistics desired. Must be broadly trained with capability to apply modern methods in answering contemporary issues in plant conservation biology. Will teach plant biology in the biology majors curriculum and specialty undergraduate and graduate courses. Must possess the desire and capability to teach in the emerging environmental science program. Strong commitment to teaching, research, and service and evidence of ability to develop an externally funded research program. *Proof of eligibility to work in the United States is required of all applicants.* Send an application letter, curriculum vitae, transcripts, three letters of reference, research agenda, and teaching philosophy to: Dr. Don Royce Lee, Chair of Search Committee, Department of Biological and Earth Sciences, Texas A&M University-Commerce, P.O. Box 3011, Commerce, TX 75429-3011. Deadline March 1, 1999. *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

DIRECTOR OF FRITS WENT LABORATORY (AN ECOCELL FACILITY) SENIOR RESEARCH PROFESSOR

Desert Research Institute (DRI)'s Biological Sciences Center (BSC) seeks Senior Scientist to build research programs to link organismal, ecosystem, and landscape ecology and to direct the newly completed Frits Went Laboratory (FWL) in Reno, Nevada. FWL houses a unique ecologically controlled environmental lysimeter laboratory that allows assessment of the mass balance of materials at the mesocosm level. We play a major role in the Nevada Desert Face Facility, Mojave Desert, construction of a long-term ecological research study next to the Face Facility, and will begin extensive research of ecosystems in the Sierras/Lake Tahoe.

Key responsibilities: Build large research program in a subset of physiological ecology, biogeochemistry, ecosystem ecology, landscape ecology, or ecosystem modeling; oversee daily operations of the state-of-the-art controlled environments, laboratories, and greenhouse facilities; work with DRI faculty and collaborators to produce a quality research enterprise; and work with Director to formulate scientific vision for BSC.

Required: Ph.D. in biological sciences or related field; minimum of five years of research experience postdoctoral; experience operating controlled environment facilities; strong record of scientific achievement including publication in peer-reviewed journals, success obtaining research funding, and managing multidisciplinary or multi-institutional research programs. Salary \$90,000 to \$120,000, depending on qualifications. DRI offers an exceptional benefits package and opportunities to advise/teach graduate and undergraduate students at University of Nevada-Reno.

Review of applications begins March 1, 1999; continues until position filled. Submit résumé, letter describing how your qualifications meet our requirements, and contact information for five references. Reference Position # P40-012 and send to: Human Resources Department, Desert Research Institute, 7010 Dandini Boulevard, Reno, NV 89512. Visit us at website: www.dri.edu. Direct questions to: J. Coleman, Biological Sciences Center Director, Telephone: 702-673-7322 or D. Johnson, Deputy Director, Telephone: 702-673-7379. *DRI is an Affirmative Action/Equal Employment Opportunity Employer who employs only U.S. citizens and those authorized to work in the United States.*

BIOCHEMIST UNION COLLEGE

The Department of Biological Sciences at Union College invites applications for a two-year sabbatical replacement position as a VISITING ASSISTANT PROFESSOR, to begin fall 1999. We seek a broadly trained Biochemist/Molecular Biologist to teach an upper-level biochemistry course with laboratory for one year, with the possibility of an additional upper-level course in the second year. Participation in our cell/molecular biology introductory core course and laboratory is expected. A research laboratory and set-up money will be provided to aid in the establishment of a research program, which should include undergraduates. A Ph.D. and a strong commitment to undergraduate education are required, postdoctoral experience preferred. Union is a small selective liberal arts college with a strong tradition in the sciences. Send a letter of application, curriculum vitae, research and teaching statements, and three letters of recommendation by March 1, 1999, to: Dr. Steve Horton, Department of Biological Sciences, Union College, Schenectady, NY 12308. E-mail: horton@union.edu. *Union College is committed to a program of Affirmative Action and Equal Employment Opportunity. Women and minorities are strongly encouraged to apply.*

TEACHING FACULTY POSITION

The University of Chicago invites applicants for a non-tenure-track position as SENIOR LECTURER/LECTURER in the Biological Sciences Collegiate Division. The applicant will teach introductory biology courses and will develop/supervise laboratory programs for undergraduate upper-level courses in cell and molecular biology, developmental biology, immunology/microbiology, and genetics. We are seeking Ph.D. applicants with teaching and research experience in these fields. Send curriculum vitae, three letters of reference, and a statement of teaching interest by March 10, 1999, to: José Quintans, The University of Chicago, Biological Sciences Learning Center, Room 104-C, 924 East 57th Street, Chicago, IL 60637.

POSITIONS OPEN

ASSISTANT PROFESSOR GENETICS

Applications are invited for a tenure-track position in human biology at the University of Wisconsin-Green Bay for fall of 1999. Teaching responsibilities include human genetics, genetics, and Principles of Biology I for majors. Candidates should have completed a Ph.D. (or equivalent) by August 1999 in genetics or a related field. The successful candidate should be broadly educated in biology and have a commitment to undergraduate teaching excellence. This includes a commitment to directing undergraduate research. Preference will be given to candidates with teaching and postdoctoral experience. First screen February 15, 1999; position open until filled. To apply send (1) letter of application, (2) curriculum vitae, (3) statement on teaching and research philosophy, (4) copies of undergraduate and graduate transcripts, and (5) three current letters of reference to: Dr. Warren Johnson, University of Wisconsin-Green Bay, 2420 Nicolet Drive, Green Bay, WI 54311-7001. Telephone: 920-465-2275; FAX: 920-465-2769. Further information available at website: <http://www.uwgb.edu/~humbio/>. UWGB is an Affirmative Action/Equal Opportunity Employer. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

ASSISTANT PROFESSOR DEPARTMENT OF ORGANISMAL BIOLOGY AND ANATOMY

The department maintains research and graduate training programs in the interface of developmental and evolutionary biology, neuroethology and computational neurobiology, biomechanics, paleontology, and molecular adaptation. Applications are invited for a tenure-track position from individuals with interests in the interface of developmental and evolutionary biology, or any subject consistent with the department's programs. The successful applicant will be expected to develop a high-quality research program and to participate in the department's teaching mission, which spans the undergraduate, graduate, and medical school levels. Applicants should send a curriculum vitae, statement of research interests and the names and addresses of three individuals who can write letters of recommendation to: Organismal Biology Search, University of Chicago, 1027 East 57th Street, Chicago, IL 60637. Review of applications will begin on February 1, 1999. *The University of Chicago is an Equal Opportunity Employer. Women and members of minority groups are especially encouraged to apply.*

FACULTY AND POSTDOCTORAL POSITIONS.

Bassett Healthcare's Research Institute is expanding its program in obesity. We have positions for four Faculty Scientists or Clinician/Scientists and one Postdoctoral Fellow. (1) M.D. interested in clinical research in the field of obesity. Approximately 70 percent time protection for research. Clinical responsibilities primarily in implementation of a weight management program that will complement research activities. (2) Ph.D. or M.D. Investigators (two positions) with basic research interests related to obesity. (3) Ph.D. or M.D. Epidemiologist interested in population or intervention studies and public health initiatives related to obesity. (4) Postdoctoral Fellow. Requires a Ph.D. in biochemistry or related discipline. Each position includes start-up and equipment funds as appropriate, a competitive salary, and excellent benefits. Bassett Healthcare is a growing central New York State health care system, affiliated with Columbia University. The Research Institute is on the main campus in Cooperstown, an attractive, lakeside village that offers recreational facilities, excellent schools, and a wide range of cultural activities. Send curriculum vitae and correspondence to: Dr. Allan Green, Director, Bassett Research Institute, One Atwell Road, Cooperstown, NY 13326.

ASSISTANT PROFESSOR. The University of Alabama at Birmingham (UAB) School of Public Health is seeking candidates for a full-time tenure-track Assistant Professorship to teach in the industrial hygiene program of its nationally recognized NIOSH-supported Deep South Educational Resource Center. For further information contact: Dr. Kenneth Dillon, Search Committee Chair, University of Alabama at Birmingham, Department of Environmental Health Sciences, Birmingham, AL 35294-0022. E-mail: dillonk@uab.edu. Also visit our website: www.uab.edu/PublicHealth. Application deadline: March 1, 1999. *UAB is an Equal Employment Opportunity Employer. Women, minorities, and persons with disability are encouraged to apply.*

**DIRECTOR
NATIONAL INSTITUTE OF DIABETES AND DIGESTIVE AND KIDNEY DISEASES
NATIONAL INSTITUTES OF HEALTH**

The National Institutes of Health invites applications for the position of Director, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). The Director provides national leadership and direction of a major national Federal research program whose primary responsibility is to conduct, foster, and support basic and clinical research into diabetes and metabolic disorders; digestive and nutritional disorders; diseases of the kidney and urinary tract; and blood abnormalities.

This is a position in Senior Executive Service with a salary ranging from ES-1 to ES-6 (currently \$106,412 to \$125,900, including locality pay). Physicians may be eligible for a Physicians Comparability Allowance of up to \$20,000 per year. A recruitment bonus of up to 25% of base pay may be available to a non-Federal applicant selected for this position, and a relocation bonus of up to 25% of base pay may be available to a permanent Federal employee who must relocate to accept this position.

Applicants must meet the minimum educational requirements, or equivalent combination of education and experience, for the Medical Officer, GS-602 series, or the Health Scientist Administrator, GS-601 series, and the following mandatory qualifications: (1) Senior level research experience and knowledge of research programs in one or more scientific areas related to diabetes, digestive diseases, or kidney diseases research such as endocrinology, metabolism, nutrition, blood disorders and urinary tract. Extensive knowledge of research methodology and an understanding of biomedical and behavioral sciences as they relate to diabetes, endocrinology, metabolic disorders, digestive diseases, nutritional disorders, or diseases of the kidney, blood disorders, and urinary tract. Should be known and respected within his/her profession, both nationally and internationally, as a person of outstanding scientific competence; and 2) Ability to provide leadership/management of a research program in the diseases or disorders described above of national and international scope and complexity involving dealings with outside groups and extensive planning, progress assessment, and analysis of program objectives; development of plans for the resolution of major operational problems and issues; and management of financial and human resources, including selecting, managing, and motivating staff using fair and equitable staffing/recruitment practices, and implementing EEO and affirmative action principles and objectives.

The vacancy announcement (#DK-99-0001) may be obtained by calling 301-496-1443. Applicants are required to submit a Curriculum Vitae or resume; bibliography; or any other written format which addresses the requirements indicated in this announcement; and a detailed statement addressing the mandatory qualifications, to the following address:

National Institutes of Health
Division of Senior Systems
Executive Plaza South, Suite 100
6120 Executive Boulevard
Rockville, Maryland 20852
Attention: Carmen Garcia

Applications must be postmarked no later than March 4, 1999

- ♦ Applicants with access to the Internet's World Wide Web may browse the NIH Home Page to view the announcement and may apply through the Web at URL: www1.od.nih.gov/ohrm/hrinfo/ses/vacancy/
- ♦ Applicants may E-Mail their application material via E-Mail to garciaac@od.nih.gov

NIH IS AN EQUAL OPPORTUNITY EMPLOYER



The U.S. Department of Agriculture, Agricultural Research Service (ARS), Beltsville Agricultural Research Center, Plant Sciences Institute, Horticultural Crops Quality Laboratory in Beltsville, Maryland is seeking two permanent research scientists, a Plant Physiologist, GS-435-12/13 and a Microbiologist, GS-14/15. Salary is commensurate with experience (GS-12: \$48,796-\$63,436 per annum; GS-13: \$58,027-\$75,433 per annum; GS-14: \$68,570-\$89,142 per annum; and GS-15: \$80,658-\$104,851 per annum) plus benefits. **CANDIDATES MUST BE U.S. CITIZENS.** The Plant Physiologist will study the physiological and biochemical factors of fruits and vegetables that allow human pathogenic bacteria to contaminate and grow, particularly after fresh-cut processing. The Microbiologist will serve as a project leader studying the ability of human pathogenic bacteria to contaminate and grow on fresh and fresh-cut fruits and vegetables. Applicants must have appropriate qualifying education in plant physiology and microbiology respectively and/or have professional research experience as follows: For the Plant Physiologist position, candidates must have (1) knowledge of principles, practices, and procedures of postharvest biology, and (2) skill in the techniques used in the research of plant physiology in relation to postharvest biology. The Microbiologist position requires (1) knowledge of the principles, practices, and procedures of microbiology and food technology; (2) skill in the techniques used in the research of microbiological safety of foods; and (3) ability to lead a multidisciplinary research program, including coordination of projects and directing, motivating, training, providing guidance and assigning priorities to a diverse group of people. Both positions require the ability to design, plan, and conduct research and publish the results. **For research program information, contact Dr. Ken Gross at 301-504-6128. For complete application instructions, call 301-504-1484 to request vacancy announcement number ARS-X9E-9096 for the Plant Physiologist and/or ARS-X9E-9095 for the Microbiologist position, or print it from the internet at <http://www.ars.usda.gov>. All application materials must be postmarked by March 1, 1999. USDA/ARS is an equal opportunity employer and provider.**

**National Institutes of Health
National Institute of Allergy and Infectious Diseases
Confocal Microscopist**

The National Institute of Allergy and Infectious Diseases (NIAID) seeks a dynamic individual to run its newly established Advanced Microscopy/Imaging Facility. The individual will manage a centralized Leica TCS SP Scanning Confocal Microscope with 4 lasers and an imaging spectrophotometer. The facility will also include non-confocal microscopy image capture and analysis technologies. The facility manager must be able to interact closely with a diverse research staff within NIAID, provide microscopy services, consultations, training, and technical user support, as well as be able to select, operate, and maintain equipment. Preference will be given to qualified candidates with extensive microscopy/imaging experience and demonstrated expertise in confocal microscopy. Salary will depend upon experience and qualifications. Interested candidates must submit a curriculum vitae, bibliography, three letters of reference, and a statement of their vision of the components and mode of operation of a multiuser, advanced light microscope facility by **March 19, 1999**, to Dr. Jonathan Yewdell, Search Committee Chair, 4 Center Drive, MSC 440, Bethesda, MD 20892-0440.

NIH is an Equal Opportunity Employer

POSITIONS OPEN

Benedictine University is a comprehensive, liberal arts university with approximately 1,800 undergraduate and 1,000 graduate students. The University is located in dynamic DuPage County, along the I-88 research and development corridor, just 30 miles west of Chicago. Benedictine offers 38 undergraduate majors, nine graduate programs, one Ph.D. in organization development, and special accelerated programs for adults.

ASSISTANT PROFESSOR of physics. Earned Doctorate in physics or closely related field; preferred expertise/training in another physical or biological science or in teacher education. Responsibilities include undergraduate teaching in physical science and engineering. Conducting undergraduate research is required. Search Chair: **Dr. John Cicero**, Division of Natural Sciences.

ASSISTANT PROFESSOR of exercise physiology. Earned Doctorate in human physiology, exercise science, or biological science required. Teaching expertise in the classroom and clinical laboratory setting is preferred. Primary responsibilities include teaching graduate courses in human and exercise physiology; conducting and supervising graduate and undergraduate research; and supervision of graduate internship program. Candidates should include transcripts with submission. Search Chair: **Dr. Peter Healey**, Graduate Department of Exercise Physiology.

Candidates should send statement of teaching philosophy, curriculum vitae, and three (3) letters of recommendation (one of which must address teaching competence) to: Search Committee Chairs, Benedictine University, 5700 College Road, Lisle, IL 60532. Applications accepted until suitable candidate is found. Consideration begins January 15, 1999. Visit our website: www.ben.edu.

Benedictine is an Equal Opportunity Employer. Women and minority groups are strongly encouraged to apply.

PHYSICIAN-SCIENTIST. Nephrology. The University of Pennsylvania seeks individuals at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level who will develop/bring a basic science research program into an already active division currently including nine laboratory-based faculty, six clinical faculty, and 25 Postdoctoral Fellows. Competitive multiple-year financial packages will be offered to enable the successful applicants to establish their research program. While applicants should be Board-certified or Board-eligible in nephrology, these positions involve a major commitment to research and the training of research-oriented Postdoctoral Fellows. The division is particularly interested in research programs in the molecular genetics of renal disease, cell signaling, and immunologic mechanisms of disease. Interested individuals should forward a description of their research program with curriculum vitae to: **Laurence A. Turka, M.D.**, Chief, Renal Electrolyte and Hypertension Division, University of Pennsylvania, 700 Clinical Research Building, 415 Curie Boulevard, Philadelphia, PA 19104-6144. *The University is an Affirmative Action/Equal Opportunity Employer and solicits applications from women and minority persons.*

RESEARCH ASSOCIATE CARDIOVASCULAR RESEARCH POSITION

Full-time position available at the University of South Florida College of Medicine in Tampa, Florida. Position is available in a multidisciplinary cardiovascular research laboratory with interests in the effects of neuropeptides, natriuretic peptides, and allosteric enhancers of adenosine receptor agonists. A Ph.D. or extensive experience in cardiovascular physiology is required. Submit résumé and the names of three references to: **Dr. Robert J. Henning**, c/o Cardiovascular Research Group (Robert J. Henning, Ray Olsson, David L. Vesely), University of South Florida College of Medicine, 12901 Bruce B. Downs Boulevard, MDC 19, Tampa, FL 33612. Telephone: 813-978-5873; TDD: 813-974-2218; FAX: 813-978-5884. Position to be filled on or before June 30, 1999. Nontenure position. *USF is an Equal Opportunity/Equal Access/Affirmative Action Institution.*

RESEARCH ASSOCIATE

A Research Associate position is available to investigate regulation of α_1 -adrenergic receptors. Applicants with a strong background in molecular biology and protein biochemistry (particularly desensitization pathways) are requested to send their curriculum vitae with three letters of recommendation to: **Debra A. Schwinn, M.D.**, Department of Anesthesiology, P.O. Box 3094, Duke University Medical Center, Durham, NC 27710. FAX: 919-681-4776; e-mail: schw001@mc.duke.edu.

POSITIONS OPEN

RESEARCH BIOLOGIST/CHEMIST. GS-11/12. U.S. Department of Agriculture (USDA), Agricultural Research Service, Fargo, North Dakota, is seeking a Research Scientist in biology, chemistry, or biochemistry to conduct research on the isolation, identification, and quantification of biologically active compounds (BACs; toxins, pharmaceuticals, or estrogenic substances) in water, food, or other matrices. The successful candidate is expected to develop a research program that will increase the understanding of what BACs are present in water, food, or other matrices; the source of these BACs; and any correlation of the BACs with abnormal estrogenic, mutagenic, or teratogenic anomalies observed in nature.

Applicants must meet minimum education requirements as described in Vacancy Announcement ARS-D9W-9133. At least one (1) year of research experience at the postdoctoral level in chemistry or biochemistry (with a background in biology) is desirable. Experience in mammalian surgery, metabolic studies (i.e., isolation and characterization of metabolites), and instrumentation (i.e., mass spectrometry, NMR, GLC, and HPLC) are advantageous. Salary (\$39,960 to \$62,260) is commensurate with experience.

For information on application procedures, call: **Ms. Melanie Nyquist**, Administrative Officer, Telephone: 701-239-1203 for Vacancy Announcement Number ARS-D9W-9133 and for information on research project, call: **Dr. Gerald L. Larsen**, Research Leader, Animal Metabolism-Agricultural Chemicals Research Unit, Telephone: 701-239-1231. Applications must be postmarked by March 1, 1999. This is a competitive, permanent appointment and U.S. citizenship is required.

The USDA prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital and family status. (Not all prohibited bases apply to all programs.) Persons with disability who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact: USDA's TARGET Center, Telephone: 202-720-2600 (voice or TDD).

To file a complaint of discrimination, write: **USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue S.W., Washington, DC 20250-9410. Telephone: 202-720-5964 (voice or TDD).** *USDA is an Equal Opportunity Provider and Employer.*

NEUROPHYSIOLOGIST/ BIOMEDICAL ENGINEER

A prestigious private institute, internationally recognized as innovators in neural prostheses, seeks a Ph.D. with training in electrical stimulation/recording in the central nervous system to participate in the development of neural prosthetic devices for spinal cord injury patients. The applicant must have experience performing survival neurosurgical procedures in either cats, dogs, or primates. The candidate must have a record of productivity and the potential to develop an extramurally funded program in his or her area of research. *Candidates must be U.S. citizens or permanent residents.* Contact: **William F. Agnew, Ph.D.**, Huntington Medical Research Institutes, Neurological Research Laboratories, 734 Fairmount Avenue, Pasadena, CA 91105. Telephone: 626-397-5442; FAX: 626-397-3751. *HMRI is an Affirmative Action/Equal Opportunity Employer.*

LABORATORY DIRECTOR

The Laboratory Director implements, coordinates, manages, and supervises research at the Conte Anadromous Fish Research Center Laboratory, U.S. Geological Survey, Turners Falls, Massachusetts; provides scientific leadership and maintains liaison with cooperators, clients, and collaborators interested in anadromous fish biology and improving passage of migratory fish around man-made structures; establishes performance standards, reviews progress, establishes priorities, and makes assignments for researchers; approves budgets and monitors expenditures; attends appropriate meetings, workshops, and conferences as necessary to disseminate research, develop results, and identify new research and funding opportunities. GS-14 (\$67,000 to \$87,000). Application material is available at website: www.usajobs.opm.gov/wfjc/jobs/TB2867.HTM. Deadline is February 12, 1999. For more information, contact: **Dr. William Palmisano**, Leetown Science Center, Leetown, West Virginia, Telephone: 304-724-4400.

POSITIONS OPEN

BIOINFORMATICS/MOLECULAR BIOLOGY SCIENTIST

International Paper is seeking applications for a position in its genetics program at Southlands Experiment Forest near Bainbridge, Georgia.

Qualifications: Applicants must have a M.S. or Ph.D. in the area of plant genetics. Experience in database programming and molecular marker or DNA sequence analysis is required. Experience with plant molecular biology protocols and laboratory automation is desirable. In addition the successful candidate must be a team player and have good interpersonal skills.

Responsibilities: Develop DNA marker technology for application to forest tree improvement through molecular selection and breeding. Specific duties will include molecular marker and DNA sequence database design and analysis, software development, and laboratory automation.

Subsequent to a conditional offer of employment the candidate must successfully complete a preemployment health assessment, which includes a medical screening and drug screening, compliance with the Immigration Reform Act, and verification of a valid driver's license.

Salary: Commensurate with the candidate's qualifications and experience.

Closing date: February 28, 1999, or until a successful candidate is identified.

To apply, please submit a letter of application, curriculum vitae, and names and addresses of three references to:

Dr. Dana Nelson, Project Leader
Marker-Aided Selection Laboratory
International Paper Company
719 Southlands Road
Bainbridge, GA 31717
E-mail: dana.nelson@ipaper.com
Telephone: 912-246-3642, ext. 287

International Paper is an Equal Opportunity Employer.

ANIMAL PHYSIOLOGIST

The Department of Biology at the University of South Dakota invites applications for a tenure-track faculty position available fall 1999 at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Preference will be given to candidates that study stress responses using comparative and/or molecular techniques. A Ph.D. is required and postdoctoral experience is preferred. Development of a strong research program and direction of graduate students is expected. Teaching includes molecular biology, cell physiology, and a course in area of specialization. Please see website: <http://www.usd.edu/biol> for information about the department. Submit curriculum vitae, cover letter, and addresses of three references to: **David Swanson**, Department of Biology, 414 East Clark Street, University of South Dakota, Vermillion, SD 57069-2390. Review of applications will begin March 1, 1999, and will continue until a suitable candidate is hired. *Equal Opportunity/Affirmative Action Employer.*

The Division of Nephrology and Hypertension at the University of Cincinnati invites applications for an **ASSISTANT PROFESSOR** position. Applicants should have a Ph.D. or M.D. and extensive postdoctoral or equivalent experience in patch clamping. Strong background in molecular biology is desirable. The successful candidate will be expected to establish an independent research program that complements the current divisional interest in epithelial ion transport as well as interact with other outstanding Investigators in the Departments of Molecular Genetics and Physiology. Competitive salary and start-up package will be offered. Applicants should submit a letter of interest in the position, the names of three references, and a curriculum vitae to: **Dr. M. Soleimani**, Professor of Medicine, Division of Nephrology and Hypertension, 231 Bethesda Avenue, MSB 5502, Cincinnati, OH 45267-0585. *Applications from women and underrepresented minorities are encouraged.*

Oceanography. RESEARCH SCIENTIST. Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, Maine, invites applications for a new **PRINCIPLE INVESTIGATOR** position to conduct basic research on processes affecting biological productivity of the oceans and coastal seas. A full description of opportunities and the work of Bigelow Laboratory is available at website: <http://www.bigelow.org>. To apply, please send a letter expressing your research interests, a curriculum vitae, and the names of three references to: **Chair, Principle Investigator Search Committee**, Bigelow Laboratory for Ocean Sciences, P.O. Box 475, West Boothbay Harbor, ME 04575. Telephone: 207-633-9600.

Health Scientist Administrator (Biological Sciences)
GS-601-12/13/14 (\$48,796 – \$89,142)

The Division of Genetics and Developmental Biology of the National Institute of General Medical Sciences, National Institutes of Health in Bethesda, MD is seeking a Health Scientist Administrator (Biological Sciences). The incumbent will be responsible for stimulating, planning, advising, directing, and evaluating program activities for a portfolio of basic biomedical research grants in the area of molecular genetics, with an emphasis on one or more of the following: the genetics of complex biological systems; genomic organization; and/or chromosomal organization and structure. The incumbent provides scientific expertise in these specialized areas of genetics and advises applicants, grantees, and Institute staff regarding research aspects of grants. The incumbent also makes funding recommendations on specific research grant applications; attends meetings of study sections, review committees, and Council; and participates in site visits.

Applicants interested in applying must be U.S. Citizens and have met all requirements for a Ph.D. (or equivalent doctoral degree); or have a bachelor's or higher degree, with major study in an academic field of the health or pertinent sciences which has been applied and utilized in health or health-related research; or an equivalent combination of graduate study and related research experience. In addition, applicants must have (1) worked independently in planning, organizing, and conducting biomedical, behavioral health or health-related research; (2) served effectively in research program administration in these fields; and (3) acquired an understanding of the history, interests, internal dynamics and relationships of organizations where health research is conducted.

The best qualified candidates will be determined through demonstrated competence in the following Knowledge and Abilities (KSAs): 1) Knowledge of molecular genetics, with an emphasis on one or more of the following: the genetics of complex biological systems; genomic organization; and/or chromosomal organization and structure; 2) Ability to work effectively as part of a team; 3) Ability to make critical judgments about biomedical research projects; 4) Ability to provide expert advice on research trends in genetics and related areas; and 5) Ability to write about complex scientific topics.

You may apply by submitting a resume, OF-612, SF-171, or other written format, AND a description of your competence in the specific KSAs required for this position. You will be evaluated against each KSA, thus you are strongly encouraged to address them.

To obtain complete application requirements by FAX,
call (800) 728-JOBS, and request fax ID# 3612
National Institute of General Medical Sciences, Personnel Office
45 Center Drive - MSC 6200, Suite 3As.13, Bethesda, MD 20892-6200
(301) 594-2749; TDD (301) 402-6327

Applications must be postmarked by the closing date of February 8, 1999.
NIH is an EQUAL OPPORTUNITY EMPLOYER

CHAIR
Department of Neurology
University of Kansas
School of Medicine

University of Kansas School of Medicine invites nominations and applications for the position of Chair, Department of Neurology. We are seeking an academician with proven leadership and personal skills required to direct this important department and to continue the tradition of excellence of our outgoing chair, William C. Koller, MD, PhD. The new chair will be empowered to expand the research, educational and clinical mission of the department.

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

K.M.A. Welch, MD
Chair, Search Committee for
Department of Neurology Chair
Office of the Executive Dean
University of Kansas School of Medicine
3901 Rainbow
Kansas City, Kansas 66160-7300

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

*University of Kansas is an Equal Opportunity and
Affirmative Action Employer*

CENTER FOR SCIENTIFIC REVIEW
NATIONAL INSTITUTES OF HEALTH

The Center for Scientific Review (CSR) wants to identify research scientists who are interested in serving as a **Supervisory Scientific Review Administrator (GS-15)**. The duties of the position include supervising Scientific Review Administrators and support staff in the Oncological Sciences Initial Review Group (IRG); assigning research grant applications to individual study sections of the IRG best qualified to evaluate the scientific value and adequacy of the proposed research, and managing a study section which assesses the scientific merit of assigned grant applications.

Those interested in applying should have research experience related to the studies of mutagens, carcinogens and proteins in cell culture systems designed to study transformation (initiation, promotion and progression), in such systems, emphasis should be placed on studies concerned with the transition from basic studies to clinical applications. Moreover, candidates should have experience in studies on the cellular, genetic and molecular mechanisms of radiation induced DNA damage and methods by which nutrients modulate tumorigenesis and chemoprevention. Candidates who have experiences in pre-clinical and/or clinical therapeutic studies in which clinician-investigators directly interact with human subjects with therapeutic intent will also be considered for these positions.

Applicants must be U.S. citizens, have earned the Ph.D. or M.D. (or have equivalent training and experience) and a record of research accomplishment. Salaries for these positions range from \$80,658 to \$104,851 per year depending on qualifications.

Please submit curriculum vitae and the names of three references by February 8, 1999 to:

Jean K. Paddock, Ph.D.
Center for Scientific Review
National Institutes of Health
6701 Rockledge Drive
Room 5100, MSC 7852
Bethesda, MD 20892-7952
E-mail - paddockj@CSR.NIH.GOV

Selection for this position will be based on merit, with no discrimination for non-merit reasons, such as race, color, sex, national origin, marital status, age, sexual orientation, or membership/non membership in an employee organization.

POSITIONS OPEN

The Department of Plant Pathology at the University of Missouri invites applications for an 11-month, tenure-track faculty position at the level of **ASSISTANT PROFESSOR** with a starting date of 1 January 2000. We seek an individual with contemporary molecular expertise in an area of research involving plant responses during plant-pathogen or plant-symbiont interactions. Interactions may include those between viral, prokaryotic, or eukaryotic pathogens/symbionts and their plant hosts. Individuals studying membrane biology or signaling systems are particularly encouraged to apply. The successful candidate is expected to develop a creative, externally funded research program that includes training of graduate students, and to participate in teaching courses in his or her area of expertise. The appointment will be 80 percent research, 20 percent teaching. A Ph.D. in an appropriate field is required, and postdoctoral experience is desirable. Submit a cover letter, curriculum vitae, a one- to two-page statement of research and teaching interests, copies of no more than three publications, and a list of names and contact information (including e-mail addresses) for three individuals who would be willing to send letters of recommendation. Although applications will be accepted until a successful candidate is identified, applications received by 13 August 1999 will be given priority. Applications should be sent to:

Chair, Plant Pathology Search Committee
205 Curtis Hall
University of Missouri
Columbia, MO 65211

For more information contact: Dr. J. D. Mihail, e-mail: mihailj@missouri.edu.

ASSOCIATE or FULL PROFESSOR of agronomy-soybean breeding and genetics. This is an Endowed Associate or Full Professor position located at the University of Missouri's Delta Research Center, Portageville, Missouri. Responsibilities include development of a national and internationally recognized program in soybean breeding and genetics for resistance to abiotic and biotic stresses, especially soybean cyst nematode; add value traits to soybean such as improved oil and protein; release improved cultivars; and conduct research on plant breeding methodology. The successful applicant is expected to be involved with education of graduate students and interact with established soybean scientists located at the University of Missouri and elsewhere. A Ph.D. in agronomy, plant breeding, plant genetics, or related discipline is required. A strong background in plant breeding, genetics, statistics, and familiarity with molecular techniques is necessary. Demonstrated ability to develop programs and work in research and extension teams is essential. The successful candidate is expected to have an exemplary publication record in the area of plant breeding and genetics along with proven ability to obtain external funding to support research activities. Must demonstrate good written and verbal communication skills. Send curriculum vitae, official transcripts of all college or university work, reprints of appropriate publications, and a letter of application to:

Dr. D. A. Sleper
Chair of Search Committee
Department of Agronomy
205 Curtis Hall
University of Missouri
Columbia, MO 65211-7020
Telephone: 573-882-7320
FAX: 573-882-1467
E-mail: sleperd@missouri.edu.

Also arrange for three letters of support to be sent to: Dr. D. A. Sleper. Applications will be accepted through 31 March 1999 or until a qualified candidate is identified.

The University of Missouri is Equal Opportunity/Affirmative Action/ADA Institution.

FELLOWSHIP ENDOCRINOLOGY-HYPERTENSION

A two- to three-year Research Fellowship at the Brigham and Women's Hospital/Harvard Medical School is available immediately. Successful candidates will join a multidisciplinary program investigating in humans cardiovascular and endocrine alterations associated with space flight. Candidates should have an M.D. or Ph.D. with experience and interest in cardiovascular, renal endocrine, and/or aerospace physiology. Letters of interest and a curriculum vitae should be sent to: Gordon H. Williams, M.D., Brigham and Women's Hospital, 221 Longwood Avenue, Boston, MA 02115. The Brigham and Women's Hospital is an Equal Opportunity Employer. Applications from minority and women are encouraged.

POSITIONS OPEN

The University of Texas at San Antonio is currently recruiting for the following position:

COORDINATOR, SPECIAL PROGRAMS \$30,000 PER YEAR SALARY

The University of Texas at San Antonio Division of Life Sciences seeks a person to coordinate the newly established NIH-RCMI Cajal Neuroscience Research Center. This person will provide professional administrative and managerial skills in the coordination of all phases and activities of the Cajal Neuroscience Research Center. This position requires a Master's degree in biology, preferably in neuroscience. One year of experience in a university setting coordinating grant activities and three years of experience processing NIH grants is required. Duties include the coordination of activities of the Cajal Neuroscience Research Center; processing of purchase orders, travel reimbursements, and consulting agreements associated with the Center; communication with UTSA and NIH staff; travel as necessary to promote research collaboration in the Cajal Center; coordination of the Center activities on the UTSA website; preparation of all summary, progress, and NIH forms regarding the Cajal Center operations. A high level of expertise in computer programs used for grant reports, such as Microsoft Word, Excel, PowerPoint, and Access is required, as well as the ability to proofread and produce fully accurate work.

To apply: submit complete employment application or current curriculum vitae to: The Human Resources Office (Job listing #144), 6900 North Loop 1604 West, San Antonio, TX 78249-0610. Telephone: 210-458-4250; FAX: 210-458-4647. The University of Texas at San Antonio is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

ASSOCIATE SCIENTIST MICROELECTRONICS RESEARCH CENTER IOWA STATE UNIVERSITY

The Microelectronics Research Center (MRC) at Iowa State University is seeking an Associate Scientist to perform fundamental research on the growth and characterization of amorphous silicon (a-Si) and microcrystalline silicon thin films for fabrication of electronic devices. The incumbent will design, build, operate, modify, and maintain plasma-enhanced chemical vapor deposition (PECVD) systems to achieve new and unique thin film materials and devices. The incumbent will write proposals for future funding of research efforts and publish and present research results. Position requires a Ph.D. in solid state physics, electrical engineering, or related field plus three years of experience in film deposition and characterization. Experience in flammable gas handling and UHV systems is desirable. Salary is commensurate with education and experience. Send cover letter, résumé, plus the names, addresses, and telephone numbers (or e-mail addresses) of three references to: Ames Laboratory/IPRT Human Resources, 105 TASF, Iowa State University, Ames, IA 50011. Application date of February 26, 1999, or until filled. An Equal Employment Opportunity/Affirmative Action Employer.

The Department of Urology at the University of California, San Francisco invites applications for a full-time research position at the **PROFESSOR IN RESIDENCE** level. Applicants should have an M.D., Ph.D., or both, and a record of achievement in research into urologic diseases including benign prostatic hyperplasia and prostate cancer. Candidates must have name recognition in the field of urologic research, a track record of extramural funding, and a strong commitment to training Residents, Fellows, and postdoctoral students. *Candidates must be U.S. citizens, a requirement of the Veterans Administration, which provides partial salary support for this position.* To apply please send a letter of interest and curriculum vitae to: Peter R. Carroll, M.D., Professor and Chair, c/o Christina McDevitt, Department of Urology, University of California, San Francisco, San Francisco, CA 94143-0738.

UCSF is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE position to study the regulation of *E. coli* genes by global regulator Lrp.

A Ph.D. with strong background in bacterial genetics, molecular biology, and recombinant protein purification is required; experience with RNA polymerase genetics desirable.

To begin March 15, 1999, for a one-year appointment with possibility for renewal.

Send curriculum vitae and three reference contacts to: Dr. Joseph Calvo, 452 Biotechnology Building, Cornell University, Ithaca, NY 14853.

An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

PLANT ECOLOGIST

The Department of Biology and the Environmental Science and Policy Program at the University of South Florida (USF) seek a nine-month, tenure-track **ASSISTANT PROFESSOR** to begin in August 1999, contingent upon funding. We are particularly interested in applicants who are committed to interdisciplinary research and use modern molecular, chemical, or quantitative approaches to work in the areas of population biology or physiological ecology of plants as they relate to current environmental issues. Candidates must have a Ph.D. in biological sciences; postdoctoral experience is preferred. Successful candidates are expected to develop a strong record of extramurally funded research, and teach undergraduate classes in ecology and environmental science, and graduate classes of choice. USF is ranked as a Carnegie Institute Research Level Two Institution. The Biology Department consists of 32 faculty members, three full-time Instructors, 1,800 undergraduate majors, and over 100 graduate students. To apply, send a curriculum vitae, three representative reprints of published research, statements of research and teaching interests, and three letters of reference to: Plant Ecologist Search Committee, Department of Biology, SCA 110, University of South Florida, 4202 East Fowler Avenue, Tampa, FL 33620-5150. Completed applications must be received by February 22, 1999. Further information on the department and this position can be found at website: <http://www.cas.usf.edu/biology>. The University of South Florida is an Equal Opportunity/Affirmative Action/Equal Access Institution. For disability accommodations, please Telephone: 813-974-3250.

ASSOCIATE/FULL MEMBER MOLECULAR GENETICS OF GLIOBLASTOMA MULTIFORME Pacific Northwest Cancer Foundation

An outstanding opportunity exists for a funded individual in the area of molecular genetics and experimental therapy of glioblastoma tumors. We seek an individual with the leadership skills and vision necessary to head and build a strong program in the understanding of glioblastoma tumors and in the application of molecular and/or immunological techniques focused on therapy with the goal of moving into the clinic. Very significant internal funding exists to support a competitive salary commensurate with experience and for substantial technical and/or postdoctoral-level support. Efforts are currently directed toward tumor suppressor genes and several putative oncogenes. The Foundation is affiliated with Northwest Hospital, which is located north of Seattle and has significant research funding activity in prostate cancer, carcinogenesis, signal transduction, and immunology. New laboratory facilities (60,000 square feet) will be occupied in year 2000 and the ability to help design new space is possible. Please respond with a concise synopsis of research accomplishments, future directions, funding history, and curriculum vitae to: Alton L. Boynton, Ph.D., Director of Molecular Medicine, Suite 230, 120 Northgate Plaza, Pacific Northwest Cancer Foundation, Northwest Hospital, Seattle, WA 98125. E-mail: aboynnton@nwbio.org.

MAMMALIAN ECOLOGIST ASSISTANT UNIT LEADER FOR WILDLIFE RESEARCH

The Alabama Cooperative Fish and Wildlife Research Unit at Auburn University is seeking applicants for the Assistant Unit Leader for Wildlife Research. The successful candidate will be an employee of the Cooperative Research Unit Program, Biological Resources Division, U.S. Geological Survey selected via federal hiring procedures at the GS-12 level (Research Wildlife Biologist GS-0486). Application procedures and a full listing of the job announcement will be available at website: <http://www.usajobs.opm.gov>. Additional information is available at website: <http://www.ag.auburn.edu/~mwooten/aulw.htm>.

A Ph.D. is required. The incumbent must have earned at least one degree in wildlife science or a closely related discipline, with a demonstrated interest in mammalian wildlife ecology and experience/expertise in forested landscapes, appropriate skills for university education, and the ability to interact and cooperate successfully with professional natural resource organizations, agencies, university faculty, and the public.

Contact: Barry Grand, Leader, Alabama Cooperative Fish and Wildlife Research Unit, 331 Funchess Hall, Auburn, AL 36849-5414. Telephone: 334-844-9237; e-mail: bgrand@acesag.auburn.edu.



SUGEN, Inc. is a dynamic and respected biopharmaceutical company focused on the discovery and development of small molecule drugs for the treatment of cancer, diabetes and immunological disorders. We are developing a proprietary family of anti-cancer drugs, with plans to build a vertically integrated cancer business in North America.

SCIENTIST Molecular Genetics of Cancer

We currently seek a Scientist with expertise in molecular biology and biochemistry to join a multi-disciplinary team focused on signal transduction in human cancer. The chosen candidate will be expected to initiate a research program focused on defining molecular targets for therapeutic intervention. We will also rely on you to contribute to gene expression studies in support of key SUGEN projects. Candidates should have 3-8 years postdoctoral experience in an academic or industrial setting with an outstanding publication record. Experience in the areas of mammalian gene expression, tumor biology, and kinase-mediated signal transduction mechanisms is especially desirable. Strong written and verbal communication skills are essential.

Please see our website for more information about SUGEN Inc. and other exciting opportunities:

www.sugen.com

We offer competitive salary and benefits, including stock options. Please send resume to our new facility at: Human Resources, Job Code: DW-SCI2, SUGEN, Inc., 230 E. Grand Ave., South San Francisco, CA 94080. EOE.

Molecular Biology/Protein Chemistry

The Discovery Section of the U.S. National Cancer Institute's Laboratory of Drug Discovery Research and Development (LDDRD) is seeking qualified candidates for a key position in one of the Section's five principal project teams. The incumbent will serve as a key member of a team comprised of 8-10 interdisciplinary research staff, charged with the task of: "Isolation, Characterization, Mechanism of Action and Developmental Research of Novel Anti-HIV and Antitumor Proteins and Peptides from Natural Products." The incumbent will also serve as a key LDDRD liaison for international collaborative efforts to develop genetically engineered nonpathogenic bacteria for mucosal delivery of antiviral proteins for topical antiviral prophylaxis. Additional details of the LDDRD, Discovery Section and the project team organization therein can be found on the Internet: http://epnws1.ncifcrf.gov:2345/dis3d/lddrd/lddrd_di.html.

The ideal candidate for this position must have a Ph.D. in a biological or chemical science, and at least 3 years or more postdoctoral training and/or experience in the isolation and characterization of naturally occurring antiviral and/or antitumor proteins from non-mammalian sources; the candidate must also have demonstrable experience in the successful development and application of recombinant expression systems for such bioactive proteins as well as mutants and conjugates thereof. Experience in a broad range of techniques involved in modern molecular biology and protein chemistry is essential. Demonstrated ability to function effectively in an interdisciplinary team research environment is a prerequisite. Substantial research expertise, specifically in an applied research environment oriented toward drug lead-discovery and development (e.g. such as, but not necessarily limited to, pertinent experience in the pharmaceutical or biotech industry) is a definite plus. Aptitude, or preferably direct experience, for organizing and/or facilitating pertinent international research collaborations would also be advantageous. Salary range for the position, commensurate with qualifications, is \$40,714.00 to \$52,927.00 per annum. Candidates should submit application letters, supporting materials and names of 3 references to:

Michael R. Boyd, M.D., Ph.D.
Chief, LDDRD, DTP, DCTD, NCI
NCI-FCRDC
P.O. Box B; Bldg. 1052, Room 121
Frederick, MD 21702-1201

Closing date for receipt of applications is March 5, 1999.

Engineer

The National Renewable Energy Laboratory (NREL) in Golden, Colorado is the nation's primary federal laboratory for research, development and deployment of renewable energy and energy efficiency technologies. We have the following positions available:

Senior Engineer II - (Req. #E5800-339)

Plan and lead the Biotechnology Center's efforts in process R&D. Initiate, develop, and conduct innovative project work for technology applications in the conversion of biomass to fuels and chemicals. Continuously evaluate work for technical and economic feasibility, progress, and alignment with programmatic goals. Collaborate with DOE, other government agencies, Universities, and commercial entities to develop project scope, validation, implementation, and analysis. Identify external funding sources and review and prepare funding proposals. In addition, publish and present results in technical journals, symposia, conferences, and meetings to maintain national/international recognition.

A doctoral degree in engineering or other relevant technical discipline or equivalent experience including 15 years of pertinent R&D experience is required. Must have excellent leadership and project management skills and the ability to apply broad, in-depth knowledge of engineering principles. Solid interpersonal and communication skills as well as a proven track record of innovation and creativity are essential. A PhD in chemical/biochemical engineering and substantial experience applying advanced engineering concepts to biological problems, especially for low value products is preferred. Established research/engineering credentials and strong ties to the industrial community in the areas of biochemical engineering and biotechnology are helpful.

Senior Scientist II - (Req. # E5800-327)

Help plan and lead plant genetic engineering R&D and develop research projects to modify biomass for enhanced utility in the Biofuels and Biomass power areas. Identify biotechnology focus areas for carbon sequestration and mitigation consistent with internal R&D as well as future strategic initiatives. Initiate and evolve collaborations within DOE, other government agencies, Universities, and commercial entities. Identify external funding sources and review and prepare funding proposals. Publish and present results in technical journals, symposia, conferences, and review meetings to maintain national/international recognition.

A doctoral degree in science or other relevant technical discipline or equivalent experience and 15 years of pertinent R&D experience is required. Must have excellent leadership and project management skills and the ability to apply broad, in-depth knowledge of scientific principles. Solid interpersonal and communication skills as well as a proven track record of innovation and creativity are essential. A PhD in plant/algal biotechnology with 15 years' experience in molecular biology as it relates to genes, enzymes, and metabolic pathways is preferred. Established scientific credentials and strong ties to the industrial community in the areas of plant genetics and crop/plant improvement are helpful.

Please send your resume indicating appropriate Req.# to: NREL, Human Resources Office, Req # _____, 1617 Cole Blvd., Golden, CO 80401. Visit our web page for more position vacancies at: www.nrel.gov/lab/hr/jobs.html. NREL is an equal opportunity employer and proud of its commitment to diversity. Women and minorities are encouraged to apply, M/F/D/V.



POSITIONS OPEN

RESEARCH SCHOLARS

The Department of Anatomy, University of British Columbia (UBC), is seeking individuals to sponsor for Canadian Scholarship Awards. Candidates should have a Ph.D. and/or M.D. in an appropriate biological science and a minimum of two years of postdoctoral experience. Selected applicants will be required to submit Scholarship and Research Applications by September 1999. Members of the Department utilize modern molecular, cellular, and organismal approaches to examine broad questions in neuroscience, cancer, and cell and developmental biology. The successful applicants will be expected to complement and extend the departmental expertise and will also have an opportunity to participate in a broad range of departmental teaching activities. Applicants should send their curriculum vitae, names of three individuals willing to furnish letters of reference, and an outline (one to two pages) of their proposed research program to: **Dr. W. K. Ovalle, Head, Department of Anatomy, Faculty of Medicine, University of British Columbia, 2177 Westbrook Mall, Vancouver, British Columbia V6T 1Z3 Canada.** The deadline for applications is March 31, 1999.

These are full-time grant tenure-track positions at the rank of **ASSISTANT PROFESSOR**. The anticipated start date is July 1, 2000. *UBC hires on the basis of merit and is committed to Employment Equity. We encourage all qualified persons to apply. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.*

AQUATIC SYSTEMS ECOLOGIST. The National Research Program of the U.S. Geological Survey's Water Resources Division invites applications for a full-time research position in Reston, Virginia. Research emphasis is aquatic systems ecology. Seeking individual with strong field experience in aquatic ecosystems and demonstrated quantitative skill in process-oriented analyses that incorporates spatial and time series analyses. Requires Ph.D. or equivalent experience with strong evidence of collaborative research capability. Salary c. \$48,000 to c. \$60,000, depending on experience. For information about Water Resources Division browse at website: <http://water.usgs.gov>. For detailed vacancy announcement contact: **Office of Personnel, Telephone: 703-648-6131; TTY: 703-648-7788** (Reference # H-99-700). Direct other inquiries to: **Richard Marzolf, Telephone: 703-648-5828; e-mail: rmarzolf@usgs.gov**. Submit résumé, bibliography, and brief description of research interests to: **U.S. Geological Survey, Office of Personnel, 601 National Center, Reston, VA 20192.** Applications must be received by March 1, 1999. *The U.S. Geological Survey is an Equal Opportunity Employer. U.S. citizenship required.*

SENIOR MEDICAL PHYSICIST. Duties include acceptance, commissioning, calibration, and checks of medical linear accelerators and simulators; dosimetry and checks of patients' charts; overall physics services for ultrasound-guided prostate implants; develop, implement, and review Quality Management and Radiation Protection Programs; perform licensing and other regulatory and radiation safety services; preparation of treatment plans using Prowess system; brachytherapy services; design shielding for therapeutic, diagnostic, and brachytherapy facilities. Salary offered: \$57,500 per year, full-time. Require M.S. in medical physics and three years of experience as Medical Physicist; needs extensive travel to work in two cancer centers located 300 miles apart in rural North Carolina (Salisbury and Elizabeth City). Applicants should mail or FAX résumé to: **William Walker, Ph.D., President, 11928 Ropp Lane, Lovettsville, VA 20180. FAX: 540-822-4188.**

RESEARCH AND DEVELOPMENT SCIENTIST MOLECULAR BIOLOGY

World's leading producer of transgenic animal models is seeking a Ph.D.-level Molecular Biologist to assume responsibility for research and development programs. Immediate challenges include development of nonisotopic labeling systems for Southern blots and construction of PCR assays for mouse microsatellite marker monitoring. Knowledge of traditional and molecular rodent genetics is highly desirable. Send résumé and salary requirements in confidence to: **Human Resources Director, Taconic, 273 Hover Avenue, Germantown, NY 12526. FAX: 518-537-7287; e-mail: pphe@taconic.com.** We provide competitive salary and benefits packages. *Taconic is an Equal Opportunity Employer/Affirmative Action Employer.*

POSITIONS OPEN

RESEARCH POSITION MOLECULAR BIOLOGY OF INFLAMMATION

The Vascular Biology Program at London Health Sciences Centre and the University of Western Ontario, London, Ontario, Canada has a position available for a scientist. The members of the Vascular Biology Program consists of basic and clinician scientists interested in the systemic inflammatory response syndrome (SIRS). The Vascular Biology Program currently receives funding from the Medical Research Council of Canada (a Group Grant as well as individual grants), Heart and Stroke Foundation, and industrial sources. For more information about the Vascular Biology Program please visit our website: www.lhsc.on.ca/vascularbio. The applicant will receive an appointment at the rank of in the most appropriate Academic Department at the University of Western Ontario. The applicant is expected to have demonstrated excellence in research as attested by extramural funding in the area of molecular/immunologic regulatory mechanisms involved in any aspect of acute inflammation. In order to complement existing technology and approaches, the individual should have a good background in the regulation of any of the myriad of genes involved in the inflammatory process. The applicant is expected to interact with the members of the Vascular Biology Program whose interests include inflammation, neutrophil-endothelial adhesive interactions, adhesion molecular expression, and vascular disorders associated with SIRS.

London, Ontario is a city of 350,000 in southwestern Ontario with easy access to various major centers in Canada and United States. The absence of urban congestion and pollution, in conjunction with a mild climate, makes it one of the most attractive communities in Canada, offering an excellent cultural and family-oriented environment.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The closing date for the application is March 31, 1999.

Interested individuals should submit their curriculum vitae to: **Peter R. Kvietys, Ph.D., Director, Vascular Biology Program, London Health Sciences Centre Research Inc., 375 South Street, Room 210, London, Ontario N6A 4G5 Canada.**

ENDOWED CHAIR IN GEROPSYCHIATRY

The Department of Psychiatry at the University of California, San Francisco, is seeking applications from basic or clinical scientists for the new position of **DIRECTOR of Geropsychiatry**. Appointment will be at the **ASSOCIATE or FULL PROFESSOR** level. Candidates must be Psychiatrists with clinical and teaching interests in the area of geropsychiatry and have a record of outstanding achievement in a relevant scientific area. Substantial resources will be devoted to the position including the Leon Epstein Chair in Geropsychiatry. The successful candidate will be expected to develop a program in geropsychiatry in close cooperation with the Departments of Neurology and Medicine. Interested applicants should send curriculum vitae and a letter of interest to: **Nelson B. Freimer, M.D., Chair, Search Committee, c/o Natasha Page Carroll, University of California, San Francisco, Department of Psychiatry, 401 Parnassus Avenue, Box NGL-0984, San Francisco, CA 94143-0984.** This position will remain open until filled. *UCSF is an Affirmative Action/Equal Opportunity Employer. The University undertakes Affirmative Action to assure Equal Employment Opportunity for underutilized minorities and women, for persons with disability, and for Vietnam-era veterans and special disabled veterans.*

DEVELOPMENTAL NEUROBIOLOGIST/BEHAVIORAL GENETICIST. Faculty rank commensurate with experience. ID#9125. The University of Illinois at Chicago, Department of Psychiatry seeks a scientist at the Doctoral level with a background in behavioral genetics or other aspects of developmental neurobiology to work with a team of NIH and private-funded investigators in mental health prevention (e.g., **Pat Tolan** and **Roberta Paikoff**) and neuroscience (e.g., **Erminio Costa** and **Alessandro Guidotti**), with particular interest in violence, abuse, and substance use prevention. Salary and rank commensurate with experience. Send applications to: **Chris Radzom, University of Illinois at Chicago, Department of Psychiatry, 912 South Wood Street (M/C 913), Chicago, IL 60612.** *UIC is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

DIRECTOR GWEN KNAPP CENTER FOR LUPUS AND IMMUNOLOGY RESEARCH

The Division of Biological Sciences of The University of Chicago is soliciting nominations and applicants for the position of Director for the Gwen Knapp Center for Lupus and Immunology Research, one of the biomedical research centers located in the Institute for Molecular Medicine, housed within the Jules Knapp Research Building. The other research centers in the Knapp Building will be devoted to the study of neurobiology and molecular oncology. The Gwen Knapp Center is committed to immunological and molecular biological research with the ultimate goal of understanding the cause and treatment of immunologic diseases, including systemic lupus erythematosus. The Center has 10,000 square feet of recently constructed research space that can house five Investigators. The Director will be responsible for the development of this program, the recruitment of additional Center faculty members who will have primary academic appointments in appropriate departments, and for the teaching of undergraduate, graduate, and medical students. Generous funding is available for the support of this major new research program. The activities of the Center will complement ongoing programs in immunology at The University of Chicago. Please address expressions of interest and suggestions, accompanied by résumés and other relevant information, by March 1, 1999, to: **Dr. Jeffrey Bluestone, Chair, Knapp Center Search Committee, c/o Donna L. Szymanski, Committee Coordinator, The University of Chicago, 5841 South Maryland Avenue, MC1000, Chicago, IL 60637-1470.** *The University of Chicago is an Affirmative Action/Equal Opportunity Employer.*

RESEARCH TECHNICIANS DIABETES RESEARCH WINTHROP-UNIVERSITY HOSPITAL

Must possess familiarity with tissue culture; animal surgery; enzyme kinetics and purification; HPLC; SDS Page; Northern, Western, and Southern blot analysis; transfections; sequencing; PCR; and other routine biochemical techniques. B.S./M.S. in cell biology/biochemistry and/or molecular biology with two-plus years of related hands-on experience required.

We offer a competitive salary and a flexible benefits program. For consideration, please send your résumé with salary requirements to: **Employment Division, Human Resources Department, Winthrop-University Hospital, 259 First Street, Mineola, NY 11501.** "A Partner In The Winthrop South Nassau University Health System, Inc." *Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.*

NASA PLANETARY BIOLOGY INTERNSHIPS

The Marine Biological Laboratory, Woods Hole, Massachusetts invites applications from graduate students and seniors accepted to graduate programs for Internships to explore scientific questions of global scale about the planet Earth. Interns will receive awards of \$2,200 plus travel to participate in research at NASA centers and collaborating institutions for approximately eight weeks. Typical intern programs include global ecology, remote sensing, microbial ecology, biomineralization, origin and early evolution of life. Application deadline: March 1, 1999. For information/applications, contact: **Michael Dolan, Planetary Biology Internship, Department of Biology, Box 3-5810, University of Massachusetts, Amherst, MA 01003-5810. E-mail: pbi@ibo.umass.edu; Telephone: 413-545-3223.** *An Equal Opportunity/Affirmative Action Institution.*

JUNIOR STAFF SCIENTIST JOHN B. PIERCE LABORATORY

The John B. Pierce Laboratory, affiliated with Yale University, seeks a Junior Scientist studying the interactive effects of reproductive hormones with salt and water retention hormones on body fluid regulation in humans. We especially seek applicants with a record of extramural support. Applications including a curriculum vitae, reprints of several relevant papers, and the names of three references should be sent by March 15, 1999, to:

**Junior Scientist Search
The John B. Pierce Laboratory
290 Congress Avenue
New Haven, CT 06519**

The Laboratory is an Equal Opportunity Employer.

Director, Nucleic Acid/ Genomics Core Service Facility

The Wistar Institute, an independent research organization located on the University of Pennsylvania campus, is currently seeking a Director to run our Nucleic Acid/Genomics Core Service Facility. Duties include supervision of automated nucleic acid sequencing service, robotic arraying of biological materials to microtiter plates, nylon membranes, or glass slides (including microarrays), hybridization and analysis of macroarrays and microarrays, database maintenance/curation, consultation/assistance with techniques and experimental designs using macroarrays and microarrays. This position also provides opportunities for collaborative interactions with Wistar investigators.

The successful candidate will have a Ph.D. and/or M.D./Ph.D. and a minimum of three years postdoctoral training in molecular biology or biochemistry. A strong publication record is preferred. Outstanding communication skills, and proficiency with instrumentation and computers required.

Interested applicants are requested to send a C.V. and three letters of reference to the Human Resources Dept., THE WISTAR INSTITUTE, 3601 Spruce Street, Philadelphia, PA 19104. EOE/AA/M/F/D/V.



Research Investigators

DRUG METABOLISM/PHARMACOLOGY

Chicago Area

TAP Pharmaceuticals has created success for more than 20 years by combining the strengths of two internationally prominent pharmaceutical companies. We offer you the opportunity to have an immediate impact in an evolving and highly advanced research area.

DRUG METABOLISM - These positions will be part of a team responsible for the design, implementation and interpretation of ADME and PK studies with pharmaceuticals. They will serve as liaison with contract laboratories performing *in vivo* and *in vitro* biotransformation studies, developing analytical methods for the quantitation of drugs and metabolites, and analyzing biological samples. Selected individuals will also independently perform PK analyses of data from clinical studies and supervise PK projects conducted at contract labs.

PHARMACOLOGY - This position will be part of a team responsible for executing preclinical pharmacology studies on assigned TAP compounds. Duties include designing and managing efficacy and safety pharmacology studies at outside laboratories. Position also involves participation on project teams.

For these positions, we are seeking candidates with a Ph.D. degree and 1+ years of experience in drug metabolism/pharmacokinetics or whole animal physiology. A Master's degree with 2+ years of experience or a Bachelor's degree with 5 years of experience in a relevant area would also be considered for some positions. Excellent oral and written communication skills required. Independent worker with the ability to thrive in a team-oriented environment is essential. Minimal travel required.

TAP Holdings invites you to learn more about the exceptional career environment and lifestyle available at our headquarters in suburban Chicago. Please forward resume to: Human Resources, Dept. CM/SC, TAP Holdings Inc., 2355 Waukegan Road, Deerfield, IL 60015. Fax: 847-236-2270. Equal Opportunity Employer.



TAP HOLDINGS INC.
parent of TAP Pharmaceuticals Inc.

Cell Biology, Virology and Immunology

The Immunology & Virology Section, Laboratory of Immunology, National Eye Institute, National Institutes of Health, Public Health Service is searching for a **Staff Scientist** with expertise in cell culture technology, cytokine biology and infectious diseases to investigate host interactions of ocular infectious and inflammatory disease. The candidate's work will complement ongoing studies in the Laboratory on the study of host and viral factors involved in pathogenic processes within the eye. Training and expertise in establishing retinal and corneal cell cultures and molecular virology and immunology is desirable. Staff scientists are considered to have specialized skills and expertise and this appointment is made initially for up to five years. Candidates must have a Ph.D., MD or DVM degree; be U.S. citizens or resident aliens; and have a strong peer-reviewed publication record in the stated areas of research. Salary commensurate with qualifications. Please **submit applications to:** John J. Hooks, Ph.D., Chief, Immunology & Virology Section, NEI, Building 10, Room 6N228, 10 Center Dr MSC 1857, Bethesda, MD 20892-1857. **Deadline date is February 20, 1999.**

Qualified and interested candidates should send curriculum vitae, bibliography and three (3) letters of reference to the above address.

NIH is an Equal Opportunity Employer.

CHAIR Department of Organismal Biology & Anatomy

The Division of Biological Sciences, which includes the Pritzker School of Medicine, seeks a Chair of the Department of Organismal Biology & Anatomy. This is a multi-disciplinary department with strengths in biomechanics, evolutionary developmental biology, systems and integrative neurobiology, and vertebrate paleontology. The Chair reports to the Dean of the Division/Vice-President of the University, and is responsible for providing academic and administrative leadership in research and teaching of undergraduate, graduate, and medical students. The successful applicant has an outstanding record of scientific accomplishment in the field of either vertebrate paleontology or evolutionary developmental biology, and have demonstrated administrative abilities qualifying him or her to oversee and enhance the missions of the Department. Please send curriculum vitae and the names of three individuals familiar with your work to: **David Jablonski, PhD., Chair, Dept. of Organismal Biology & Anatomy Search Committee, c/o Donna L. Szymanski, The University of Chicago, 5841 S. Maryland Ave., MC1000, Chicago, IL 60637-1470 by 2/28/1999.**



THE UNIVERSITY
OF CHICAGO

An Affirmative Action/
Equal Opportunity Employer

POSITIONS OPEN

EXECUTIVE DIRECTOR PITTSBURGH TISSUE ENGINEERING INITIATIVE, INC.

The Pittsburgh Tissue Engineering Initiative, Inc. (PTEI) is seeking an Executive Director to lead the organization into its next phase of development. The successful candidate will be a proven leader with either an M.D. or Ph.D. degree and experience in both tissue engineering research and fundraising. PTEI is a nonprofit, supporting organization for five research institutions in western Pennsylvania: Allegheny University of the Health Sciences, Carnegie Mellon University, Duquesne University, the University of Pittsburgh, and the University of Pittsburgh Medical Center. PTEI's mission is to promote academic collaborations leading to viable tissue engineering technologies and to educate the public about the emerging field of tissue engineering. In support of these goals, PTEI provides grants for early technology development in tissue engineering and sponsors several important educational programs, including a monthly Seminar Series for research professionals and biotechnology entrepreneurs; a competitive Summer Internship Program for undergraduate students; and a Biotechnology Exposure Program for students in grades K-12. The Executive Director will represent PTEI to the research and general community; interface with university, political, and community leaders; guide key scientific collaborations; and be involved with national and international tissue engineering collaborative activities. Compensation will be commensurate with experience. For consideration, send curriculum vitae to: **Anne Immekus, Administrator, PTEI, 425 Sixth Avenue, Suite 1810, Pittsburgh, PA 15219.** For more information on PTEI, visit our website: www.pittsburgh-tissuc.net. The search will remain open until an appointment is made.

ASSOCIATE RESEARCH SCIENTIST GENOME INFORMATICS TEXAS A&M UNIVERSITY

The Texas Agricultural Experiment Station at Texas A&M University invites applications for a non-tenure-track position in genome informatics. Texas A&M is currently undergoing significant programmatic expansion in genomics and bioinformatics. This individual will participate in the development of new and existing bioinformatics resources for ongoing programs on crop/plant, fungal, and microbial species.

A Ph.D. in the life sciences (or computer science, with experience in biological applications) is required, with a minimum of two years of postdoctoral experience. The applicant should have demonstrated experience with graphical-user interfaces (including World Wide Web-based tools), programming, and databases in a distributed client/server environment. Previous experience with genomics data and informatics is highly desirable. Salary and level of appointment will be commensurate with experience.

Applicants should send a curriculum vitae, names of at least three references, and a one-page summary of interests and goals to: **Search Committee for Genome Informatics, Attn.: Leland Ellis, Department of Biochemistry and Biophysics, Texas A&M University, College Station, TX 77843.** E-mail: leland@xian.tamu.edu.

Review of applications will begin immediately and continue until the position is filled.

Texas A&M University and the Texas Agricultural Experiment Station are Equal Opportunity Employers. Women and minorities are encouraged to apply.

RESEARCH POSITIONS AT THE SCRIPPS RESEARCH INSTITUTE

We are recruiting Ph.D.'s and M.D.'s to participate in NIH-funded research projects relating to the cellular and molecular mechanisms underlying transbilayer movement of phosphatidylserine and other plasma membrane phospholipids in apoptotic or immune injured cells. Projects include investigation of transcriptional regulation, molecular structure, and function of phospholipid scramblase and other phospholipid transport proteins. Expertise in either molecular and cellular biology, protein chemistry, or structural biology desired. Interested individuals are invited to visit our website: <http://www.scripps.edu/mem/biochem/Sims/>.

Letters of interest along with curriculum vitae and references should be sent to: **Peter J. Sims, M.D., Ph.D., Professor, Department of Molecular and Experimental Medicine, The Scripps Research Institute, 10550 North Torrey Pines Road-SPI, La Jolla, CA 92037.**

POSITIONS OPEN



The USDA, Agricultural Research Service, Beltsville Agricultural Research Center, Plant Sciences Institute, Fruit Laboratory, in Beltsville, Maryland is seeking a **RESEARCH HORTICULTURIST/PLANT PHYSIOLOGIST/SOIL SCIENTIST/ECOLOGIST**, GS-437/435/470/408-12/13. Salary is commensurate with experience (GS-12: \$47,066 to \$61,190 per year, GS-13: \$55,969 to \$72,758 per year). *Candidates must be U.S. citizens.* The position conducts high-priority basic and applied research on the investigation of the impact of sustainable cultural systems on the small fruit production industry and on the environment. For information on the research program, contact: **Dr. Richard Zimmerman, Telephone: 301-504-6647.** Since the position has specific education and experience requirements and factors that must be addressed, applicants must request a copy of the vacancy announcement by **Telephone: 301-504-1484** or by printing it from our Internet site at website: <http://www.ars.usda.gov>. The vacancy announcement number for this position is ARS-D9E-9080. This announcement closes January 31, 1999. *USDA/ARS is an Equal Opportunity Provider and Employer.*

DIRECTOR. University of Miami Marine and Freshwater Biomedical Sciences Center. Position available on or about July 1999 for National Institute of Environmental Health Sciences-supported center. Now in its eighth year, the Center boasts an international reputation in marine environmental health sciences and operates core resources, a postdoctoral training program, a seminar series, and an international outreach program. The Director will be expected to maintain an independent research program as well as to administer collaborative Center programs involving a diverse faculty from several departments and schools of the university. The successful candidate will have a history of NIEHS or broader NIH funding, be qualified for appointment at the rank of Professor in the Division of Marine Biology and Fisheries (with secondary/joint appointment in a relevant department of the School of Medicine), and have administrative experience commensurate with the position. Areas of research interest should be compatible with the mission of NIEHS including, but not limited to, environmental (aquatic) toxicology, environmental genomics, environmental biochemistry, and marine toxins/natural products. Applicants should send curriculum vitae, names of three references, funding history, and statement of interest to: **Dr. Patrick J. Walsh, Marine and Freshwater Biomedical Sciences Center Search Committee, University of Miami Rosenstiel School, 4600 Rickenbacker Causeway, Miami, FL 33149.** Search Committee will begin deliberations on 22 February 1999 and continue until the position is filled.

An Equal Opportunity/Affirmative Action Employer.

Opening for a PH.D. in biological sciences. Good publication record, experience in *in vivo* animal studies essential. Experience in bone implant work, histologic techniques preferable. Research project involves gene therapy in the musculoskeletal system. Salary and benefits competitive; possible long-term position. Send résumé, cover letter and names of three references to: **Ms. C. Farrell, Musculoskeletal Disease Center, Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354.** *LLU is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION PLANT ECOLOGY AND VEGETATION MANAGEMENT

A position is available immediately for a research project to map, inventory, and assess ecological condition of intact, remnant ground cover vegetation in upland pine forests on 150,000 ha of private lands in northern Florida and southern Georgia. Experience in sampling, plant taxonomy, spatial statistics, and geographic information systems required. Willingness to collaborate with plant ecology and wildlife scientists essential. A complete position description is available on website: www.talltimbers.org. Send curriculum vitae and names of three references to: **Leonard A. Brennan, Tall Timbers Research Station, Route 1, Box 678, Tallahassee, FL 32312.** E-mail: brennan@ttrs.org. *Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE UNIVERSITY OF LOUISVILLE HEALTH SCIENCES CENTER Molecular Mechanisms of Birth Defects

Positions available to investigate molecular, molecular genetic, and/or cellular signal transduction mechanisms of mammalian embryonic development. Emphasis directed toward clarification of interactions among growth factors, protein kinases, and transcription factors in regulating gene expression. Background in molecular/molecular genetic methodologies, cell and/or developmental biology required. Applicants should submit (1) curriculum vitae, (2) a statement of current research activities, and (3) names of three references to: **Dr. Robert Greene, Laboratory of Molecular Craniofacial Development, Department of Biological and Biophysical Sciences, ULSD, University of Louisville, Louisville, KY 40292.** *The University of Louisville is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL TRAINEESHIPS NEUROSCIENCE OF DRUG ABUSE New York University Medical School

Two positions available for recent Ph.D.'s on NIDA Training Grant: (1) Molecular and biochemical studies of opioid receptors, background in molecular biology or biochemistry preferred; **Dr. Eric J. Simon, e-mail: eric.simon@nyu.edu.** (2) Pharmacology of brain adrenergic receptor mechanisms in behavioral activation and depression. Experience with stereotaxic surgery, behavioral and receptor pharmacology required. **Dr. Eric A. Stone, e-mail: es35@is4.nyu.edu.** *Applicant must be U.S. citizen or permanent resident.* Send curriculum vitae, research interests, and names of three references to one of the above at: **Millhauser Laboratories, Department of Psychiatry, New York University Medical School, 550 First Avenue, New York, NY 10016.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITION STRUCTURAL BIOLOGY

Position available immediately to study protein-protein interactions in eukaryotic transcription regulation using NMR spectroscopy. Candidates trained in biomolecular NMR or a related field preferred; motivated individuals with molecular biology, biochemistry, biophysics, or computational chemistry backgrounds also considered. Send curriculum vitae and names and telephone numbers of two referees to: **Dr. Ishwar Radhakrishnan, Department of Biochemistry, Molecular Biology and Cell Biology, Northwestern University, Evanston, IL 60208-3500.** E-mail: i-radhakrishnan@nwu.edu.

POSTDOCTORAL POSITION available to study molecular mechanisms of synaptic transmission in the model organism, *Drosophila melanogaster*. Candidates with a strong background in one or more of the following areas are sought: molecular biology, biochemistry, cell biology, electron microscopy, and/or genetics. Qualified candidates (Ph.D. or M.D.) should send curriculum vitae and three references to: **Dr. Leo Pallanck, Department of Genetics, Box 357360, University of Washington, Seattle, WA 98195.** E-mail: pallanck@genetics.washington.edu. *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION BIOCHEMISTRY/MOLECULAR BIOLOGY

A position is available to study DNA binding autoantibodies and their role in autoimmune disorders like lupus. Applicants should possess expertise in either molecular/cell biology or protein biochemistry. This position is available for up to three years with salary commensurate with experience. Interested individuals should submit a curriculum vitae and names of three references to: **Dr. Gary D. Glick, University of Michigan, Department of Chemistry, 930 North University Avenue, Ann Arbor, MI 48109-1055.** *An Equal Opportunity/Affirmative Action Employer.*

A POSTDOCTORAL POSITION is available immediately to work on identifying human breast tumor antigens and to study their immunogenicity in HLA-transgenic mice. Prior experience in the techniques of molecular biology and/or immunology preferred. Mail/FAX curriculum vitae and names of three references to: **Dr. Ashwani K. Sood, Department of Immunology, Roswell Park Cancer Institute, Elm and Carleton Streets, Buffalo, NY 14263.** FAX: 716-845-8906.

UNIVERSITY OF MINNESOTA

Tenure-Track Assistant Professor University of Minnesota, Twin Cities

As part of a dramatic University-wide investment in the Biological Sciences, the **Department of Biochemistry, Molecular Biology and Biophysics** is opening several new Assistant Professor positions. The Department wishes to expand upon its historic strength in **microbial biochemistry**, coupling this with a vision of modern developments in genomics, biocatalysis and biotechnology. Specifically, applicants are sought with research interests in: (1) Microbial genomics & biotechnology or (2) Microbial catalysis & biodegradation. For more information, see:

<http://biosci.cbs.umn.edu/BMBB/MBBnewfac.html>

All candidates must hold a Ph.D. and/or M.D. degree, at least two years of postdoctoral or equivalent experience, and a strong publication record. To apply, send a curriculum vitae, statement of research interests, and three letters of recommendation to: **Search Committee, c/o Mr. Jeff Schaub, University of Minnesota, Department of Biochemistry, Molecular Biology and Biophysics, 435 Delaware St. SE, Minneapolis, MN 55455-0392, USA.** The review process will begin immediately and continue until the position is filled.

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

TRINITY COLLEGE Hartford, CT SENIOR PROFESSORSHIP

Trinity College invites nominations and applications for a five-year contract position, with possibility of renewal, for a distinguished scholar with an urban-based research agenda and teaching experience. The Professorship, with an attached annual research fund, will be an all-College appointment reporting directly to the Dean of Faculty, giving the position maximum scope, flexibility and impact. Traditional departmental affiliations may also be developed as appropriate.

Hartford is an ethnically diverse city of great cultural resources, with especially large Puerto Rican, African-American, and West Indian populations, as well as diverse new immigrant populations. Trinity, a selective liberal arts college of national prominence, is establishing a distinct urban focus within its curriculum, and strengthening its city-centered instructional and co-curricular programs. Likewise, the College is forging creative educational linkages with our city, and developing pilot projects that extend the boundaries of liberal arts learning strategies in urban settings.

The successful applicant will be an accomplished scholar who, whatever his or her discipline, has broad knowledge and understanding of cities. This knowledge may be the result of either an academic career or a combination of academic and non-academic urban experience. The College seeks to enhance its strength in one or more city-centered fields such as: toxicology, occupational health, environmental medicine with an urban focus; international and/or comparative urban studies, urban politics and development, urban public policy; urban race and/or ethnicity studies, geography, and/or community studies; and public art, urban cultural development, and/or urban education.

The appointment for this position will commence with the Fall 1999 semester. The review of applications will begin February 15, and will continue until an appointment has been made. Candidates should submit a detailed letter of interest, a complete curriculum vitae, three current letters of reference addressing teaching, scholarship, and other related experience, and a sample of his/her research or creative work to: **Senior Professorship Search Committee, c/o Elaine Garrahy, Assistant to the Dean of the Faculty, Trinity College, Hartford, CT 06106.**

Trinity College is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are especially encouraged to submit applications. Applicants with disabilities should request any needed accommodation in order to participate in the application process.

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COMBINATORIAL CHEMIST

Ph.D. in synthetic organic chemistry with 3+ years' experience including expertise with the latest solid-and-solution-phase synthetic techniques as well as applied analytical methods. Familiarity with electronic database systems and on-line literature tools is important.

SYNTHETIC CHEMIST

Ph.D. in synthetic organic chemistry with 3+ years' broad range of experience covering design, synthesis, purification and analytical characterization of heterocyclic molecules.

PHARMACEUTICAL ANALYSIS SCIENTISTS

Successful quality-oriented, analytical scientists will be responsible for assay development and validation, specifications, dissolution methodologies and special projects. Industrial pharmaceutical analysis experience in research and development is required, as well as experience with HPLC, GC, UV/VIS, and wet chemistry. Knowledge of GMP's and good documentation skills are essential. Requirements include a BS or MS Degree in Chemistry.

RESEARCH QUALITY ASSURANCE AUDITORS

Responsibilities include performing internal and external GMP/GLP audits. Participation in process validation and team-driven activities will also be expected. To qualify, you must have a BS or MS Degree in Science, QC/QA pharmaceutical industry experience and strong oral and written communication skills. Audit expertise in a research environment is a definite plus.

TOXICOLOGIST

We are seeking an individual to oversee non-clinical drug safety evaluation studies. This includes selecting contract labs; performing on-site monitoring; reviewing, summarizing and interpreting studies as well as writing non-clinical portions of regulatory submissions, both domestic and international. Approximately 40% travel will be required. A Ph.D. in Toxicology is preferred with at least 3 years' experience performing non-clinical toxicology/drug evaluation studies at a pharmaceutical company or contract laboratory. Solid knowledge of pharmaceutical regulatory toxicology and GLP's is a must. Knowledge of opioid pharmacology/toxicology and non-clinical development of biologicals is desirable.

Purdue Pharma L.P. offers competitive salaries, an extensive benefits package and excellent opportunities for personal advancement and professional growth. Company standards require drug testing and background investigation. Please mail or fax resumes, indicating position of interest, to: **Purdue Pharma L.P., Dept-ZZ/SM, 444 Saw Mill River Road, Ardsley, New York 10502; FAX: (914) 709-2590.** An Equal Opportunity Employer M/F/D/V.

Purdue Pharma L.P.
Science into Practice

POSITIONS OPEN

POSTDOCTORAL TRAINING GRANT positions on molecular basis of microbial pathogenesis. Postdoctoral Fellowship positions funded by an NIH Training Grant are available at the University of Colorado Health Sciences Center in Denver, Colorado. *Candidates must be United States citizens or have permanent resident status and be available for appointment not later than July 1, 1999.* Training in molecular biology of bacterial infections is available with **Ferric Fang, Randall Holmes, Helene Marquis, Dorothy Pierson, and Michael Vasil**; in molecular biology of viral infections with **David Barton, Robert Garcea, Donald Gilden, Kathryn Holmes, Daniel Kuritzkes, Jerome Schaack, Aleem Siddiqui, Eric Simoes, and Kenneth Tyler**; and in molecular biology of cytokine responses to infection with **Charles Dinarello**. Training that involves collaboration among these mentors is encouraged. Additional information on the above faculty and their research interests can be obtained from our website: www.uchsc.edu. Basic scientist candidates must have the Ph.D. or equivalent Doctoral degree with experience in microbiology, bacteriology, virology, immunology, molecular biology, genetics, biochemistry, cell biology, or a closely related field. Clinical scientist candidates must have the M.D., D.O., D.V.M., or an equivalent Doctoral degree and a demonstrated interest in and competency for laboratory research in one or more of the above listed fields. Salary is determined by years of prior postdoctoral experience. Submit curriculum vitae, bibliography, transcripts from graduate and/or professional schools, representative publications, and names of three professional references by mail to: **Dr. Randall Holmes, Training Program Director, Department of Microbiology, Box B-175, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262.** E-mail: randall.holmes@uchsc.edu. The University of Colorado Health Sciences Center is committed to Equal Employment Opportunity and Affirmative Action.

POSTDOCTORAL POSITION SIGNAL TRANSDUCTION

Postdoctoral position is available immediately to study receptor- and ethanol-mediated PKC signal transduction cascades with emphasis on PKC anchoring/scaffolding proteins. Exciting opportunity for highly motivated candidates with background in molecular biology. Experience in signal transduction and protein-protein interaction (yeast two hybrid) is a plus.

Send curriculum vitae and names of three references to:

Dorit Ron, Ph.D.

The Ernest Gallo Clinic and Research Center at
University of California, San Francisco
San Francisco General Hospital
Building 1, Room 101
San Francisco, CA 94110
Telephone: 415-648-7111, ext. 364
FAX: 415-648-7116

The University of Montana invites applications and nominations for the position of **DIRECTOR** of Technology Transfer. The Director coordinates all patent and commercialization of intellectual property and is responsible for all technology transfer activities. Candidate must have an advanced degree in an academic or professional field, or equivalent experience, and at least five years in industrial or academic positions with documented experience in technology transfer activities and negotiation and licensing activities.

For additional information, see website: <http://www.umt.edu/research> or contact: **The Office of the Vice President for Research and Development, Telephone: 406-243-6670; FAX: 406-243-6330.**

Application deadline is March 19, 1999. *The University of Montana is an Equal Employment Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOW/ RESEARCH FELLOW

Available January 1999 for recent graduates with a Ph.D. in molecular biology or cell biology interested in malignant transformation and cellular differentiation. Send curriculum vitae and names of three references to: **Mark A. Israel, PIBS Graduate Program in Developmental Biology and Department of Neurological Surgery, University of California, San Francisco (UCSF), 513 Parnassus Avenue, San Francisco, CA 94143-0520.** E-mail: israel@cgl.ucsf.edu. UCSF is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN



POSTDOCTORAL POSITIONS CELLULAR AND MOLECULAR ASPECTS OF HUMAN AND MURINE B LYMPHOCYTE DEVELOPMENT

Multiple positions are available to join two highly interactive laboratories investigating the cellular and molecular mechanisms regulating the generation and activation of B lymphocytes. The positions offer the opportunity to employ state-of-the-art flow cytometry, molecular biology, primary cell culture, and gene transfer in studies of human and murine B cell development. Please send a curriculum vitae with a statement of interests and the names of three references to either: **Dr. David Rawlings, Department of Pediatrics, 22-387 MDCC 175217** or **Dr. Kenneth Dorshkind, Department of Pathology, 173216, UCLA School of Medicine, 10833 Le Conte Avenue, Los Angeles, CA 90095.**

Neurobiology RESEARCH-TRACK POSITIONS available immediately for an Integrative and/or Cellular Neurophysiologist to study membrane properties, synaptic integration, and plasticity in mammalian olfactory bulb and piriform cortex. Demonstrated experience and publications in intracellular or patch-clamp recording in slices, or infrared voltage/Ca-sensitive dye imaging required. Competitive salary and fringe benefits. Opportunity to interact with neuroscientists in the department (website: <http://neurobiology.umaryland.edu/>) and the interdisciplinary Neuroscience Program (website: <http://neuroscience.umaryland.edu/>). Applicants should have a Ph.D. and/or M.D. Excellent oral and written communication skills are required. Send curriculum vitae and names, addresses, and telephone numbers of three references to: **Dr. M. Ennis/M. Shipley, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, 685 West Baltimore Street, Baltimore, MD 21201.** E-mail: mennis@umaryland.edu. The University of Maryland is an Affirmative Action/Equal Employment Opportunity/ADA Employer. Minorities and women are encouraged to apply.

POSTDOCTORAL RESEARCH ASSOCIATE

A Postdoctoral Research Associate position is available in Departments of Surgery and Medical Physiology at Texas A&M University Health Science Center Temple Campus. The research program focuses on signal transduction of vascular endothelial cell-cell and cell-matrix interactions and molecular regulation of vascular permeability. Experimental approaches include intact perfused microvessel preparation, cell culture, fluorescence microscopy, immunocytochemistry, Western/Northern blot, DNA/protein transfection, and transgenic animal models. Requires Doctoral degree in biology, physiology, pharmacology, or related area. Requires experience in cellular, molecular, or vascular biology. Competitive salary with excellent benefits package. Please send curriculum vitae to: **Employment Office, Human Resources Department, Texas A&M University, College Station, TX 77843-1475.** JOB# 990070.

Texas A&M University is an Equal Opportunity Employer committed to diversity.

Two **POSTDOCTORAL POSITIONS** in biomolecular NMR spectroscopy for two newly funded projects in transcriptional regulation and apoptosis are available immediately. Ideal candidates should have prior experience in NMR spectroscopy and have a recent Ph.D. in chemistry or in a related discipline. Send curriculum vitae and names of three references to: **Dr. Nuria Assa-Munt, NMR Facility, Apoptosis and Cell Death Program, The Burnham Institute, 10901 North Torrey Pines Road, La Jolla, CA 92037.**

POSTDOCTORAL POSITION available immediately to study DNA mismatch repair processes in cancer, meiosis, and mutagenesis. Competence in molecular biological techniques, yeast work, microscopy, and cell culture are desirable, but not necessary. Please send your curriculum vitae to: **Sean M. Baker, DNST, University of California Berkeley, Berkeley, CA 94720-3104.** Telephone: 510-642-7870; FAX: 510-642-0535; e-mail: sbaker@nature.berkeley.edu. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS are available for studies on (1) the structural basis of the regulation of the biochemical and biological activities of unconventional myosins by heavy chain phosphorylation; and (2) the structural basis of the biochemical and biological regulation of myosin heavy chain kinases, and other PAK kinases, by autophosphorylation that is stimulated by small GTP-binding proteins (Rac and Cdc42) and acidic lipids. The enzymatic, physical, and biological properties of expressed wild-type and mutated proteins are determined and correlated. Techniques employed in this and collaborating laboratories include molecular biology, enzymology, immunolocalization, differential scanning calorimetry, analytical ultracentrifugation, electric birefringence, mass spectrometry, cryoelectron microscopy, and X-ray diffraction. Experience in molecular biology and protein chemistry are important qualifications; familiarity with, and interest in, myosin biochemistry and biology would be very helpful. Salary will be proportional to experience. Interested candidates should send their curriculum vitae and bibliography and the names of three references to: **Dr. Edward D. Korn, Laboratory of Cell Biology, NHLBI, National Institutes of Health, Building 3, Room B122, Bethesda, MD 20892.** E-mail: edk@nih.gov; FAX: 301-402-1579. *NIH is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL BRIGHAM AND WOMEN'S HOSPITAL

Two positions are available in the Endocrine Hypertension Division. **Richard M. Mortensen, M.D., Ph.D.**: study the role of G-proteins, RGS proteins in signal transduction in cardiac, endothelial, adipose, and neural tissues using gene knockout and conditional expression systems. **Ursula B. Kaiser, M.D.**: study the molecular mechanisms of regulation of gonadotropin gene expression, pituitary hormones that control reproductive function. Applicants should have an M.D. and/or Ph.D., molecular biology experience preferred. *Funding requires U.S. citizenship or permanent resident status.* Send curriculum vitae and names of three references to the desired Laboratory Head at: **Endocrine Hypertension Division, 221 Longwood Avenue, Boston, MA 02115.** FAX: 617-732-5764; e-mail: rmortensen@rics.bwh.harvard.edu or ukaiser@rics.bwh.harvard.edu. *Brigham and Women's Hospital is an Equal Opportunity/Affirmative Action Employer.*

A **POSTDOCTORAL FELLOWSHIP** in the World Health Organization Collaborating Center for Tropical Diseases at the University of Texas Medical Branch (UTMB) in Galveston is available on or about July 1, 1999. The focus will be on molecular aspects of *Plasmodium-mosquito* midgut interactions. Expertise in basic molecular biology, combinatorial peptide libraries, and/or recombinant protein expression is a must; experience in malaria research is not necessary. Ph.D. or M.D. degree is required. Informal inquiries can be directed to: **Principle Investigator, e-mail: jovinetz@utmb.edu.** Send curriculum vitae, relevant reprints and three references to: **Dr. Joseph Vinetz, WHO Center for Tropical Diseases, University of Texas Medical Branch, Keiller 2.138, 301 University Boulevard, Galveston, TX 77555-0609.** *UTMB is an Equal Opportunity/Affirmative Action Employer. Minorities/Females/Disabled/Veterans.*

POSTDOCTORAL POSITION

Postdoctoral position in gene therapy available immediately. The successful applicant will develop and study cell-type specific retroviral vectors and their entry into target cells. Applicant should have a solid background in molecular biology (e.g., cloning, tissue culture, PCR, etc.). Experience with mouse model systems is a big plus. Please send résumé to: **Dr. Ralph Dornburg, Thomas Jefferson University, Division of Infectious Diseases, Jefferson Alumni Hall, 1020 Locust Street, Philadelphia, PA 19107.**

POSTDOCTORAL POSITION ROBISON FELLOWSHIP IN CANCER CHRONOBIOLOGY

Prior postdoctoral experience, publications, and U.S. citizenship required to help study mechanisms by which circadian and reproductive cycles modulate cancer growth and spread. We offer a clear path to independent funding of common projects. Send curriculum vitae and description of achievements and goals to: **Dr. William J. M. Hrushesky, (111-C), Stratton VA Medical Center, Albany, NY 12208.** Website: www.rpi.edu/~hrushw.

SYMPOSIUM

University of Cincinnati

The Seventh CINCINNATI NEUROFEST

NEW PERSPECTIVES ON THE NEUROBIOLOGY OF FOOD INTAKE AND OBESITY March 19-20, 1999

The symposium will highlight recent molecular, cellular, and integrative approaches to understanding the neurobiology of food intake and explore how these findings may be applied to the treatment of obesity and other eating disorders. Topics will include genetics and obesity, neuroendocrine, neuropeptide and autonomic systems mediating food intake and energy balance, and the influence of nutrients on the brain. Invited speakers include R. L. Leibel, J. C. Peters, D. B. West, R. A. Steiner, R. J. Seeley, T. L. Powley, B. E. Levin, and D. Porte, Jr.

Registration fee is \$150 for faculty, \$50 for postdoctoral trainees, and \$25 for graduate students. For details and registration forms contact:

University of Cincinnati College of Medicine
Department of CME
P.O. Box 670567
Cincinnati, Ohio 45267-0567
FAX: 513-558-1708
Telephone: 513-558-3197
E-mail: Jill.Holsapple@uc.edu.

ANNOUNCEMENT

National Research Council Christine Mirzayan Summer Internship Program

The National Research Council (NRC), the operating arm of the National Academy of Sciences (NAS) and the National Academy of Engineering (NAE), a private non-governmental organization invites applications for its summer internship program in science and technology policy. Graduate students and post-doctoral candidates in any science or engineering field as well as students of medicine/health, veterinary science, and science related law may apply.

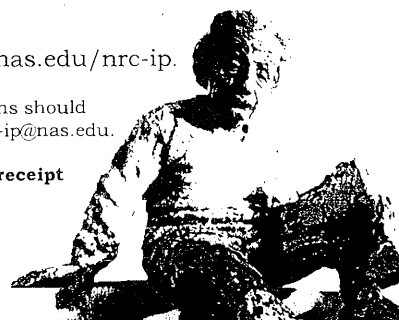
During this 10-week summer program, interns will conduct research and other activities on an issue of national importance and be exposed to national experts and state-of-the-art thinking on that issue as well as others.

Information on how to apply for the program and responses to frequently asked questions is available at the internship program website,

<http://www2.nas.edu/nrc-ip>.

Additional questions should be directed to nrc-ip@nas.edu.

The deadline for receipt of materials is March 1, 1999.



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PPI

PRAECIS' mission is to discover, develop and commercialize pharmaceuticals through integration of proprietary combinatorial technologies and high-throughput screening capabilities. We are an emerging biotechnology company involved in innovative research in Prostate Cancer, Alzheimer's Disease and Growth Factor Biology. Phase 3 trials are being conducted for our first drug and we are in the process of filing additional IND applications.

IN VIVO SCIENTIST

We are looking for an in vivo pharmacologist to join our drug discovery program in the area of neurodegenerative diseases, cancer and arthritis. Applicants for this position should have a Ph.D. with relevant experience. Experience with in vivo models, pharmacokinetics and/or toxicology is highly desirable. The selected candidate will be involved in aggressively promoting drug candidates into clinical development.

We offer a highly competitive compensation and benefits package. Please send your resume to: Mary O'Malley, PRAECIS Pharmaceuticals, Inc., One Hampshire Street, Cambridge, MA 02139. No phone calls please. An Equal Opportunity Employer.



PRAECIS
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DERMAL

RESEARCH SCIENTIST

The Toxicology Research Program at ManTech Environmental Technology, Inc., located on Wright Patterson Air Force Base, OH, is recruiting an established scientist in the area of dermal research. **Minimum requirements include:** (1) Ph.D. in biological sciences or equivalent plus 5 years' experience in dermal research; (2) 4 first author peer-reviewed publications in dermal research; (3) demonstrated good oral and written communication skills; and (4) applicant must be a U.S. citizen or have resident alien status. **Preferred candidates will possess:** Experience in (1) dermal absorption of chemicals; (2) molecular biology of the skin; (3) mathematical modeling; and (4) working in a multi-disciplinary research team environment. **Essential duties:** (1) Develop and implement laboratory methods related to understanding the distribution and toxicity of chemicals in the skin; (2) Participate in *in vivo* and *in vitro* dermal absorption experiments designed to assess systemic toxicity; (3) Provide guidance to laboratory personnel relating to the design of dermal experiments and collection of appropriate data; (4) Interact with other laboratory scientists in a team approach to solving problems related to the dermal exposures; (5) Analyze and publish research findings in scientific literature. See complete job description for this position on our web page at www.man-cny.com. Send resume and salary history to: ManTech Environmental Technology, Inc., P.O. Box 31009, Dayton, OH 45437-0009, or FAX: (937) 258-2197, or e-mail to: angellm@falcon.al.wpafb.af.mil. Specify PVA 4242-02 in all correspondence. Closing date: 2/26/99. EOE.

ASSISTANT DIRECTOR/DIRECTOR PHARMACOKINETICS AND DRUG METABOLISM

The Liposome Co., Inc. has a challenging opportunity for an experienced pharmacokineticist in the Preclinical Development Group at our Princeton, NJ research facility. You will design, conduct and interpret pre-clinical metabolism, pharmacokinetic, toxicokinetic and pharmacodynamic studies for drugs under development and drug development candidates. In addition, working with our medical, data management and bioanalytic groups, you will design, coordinate, analyze and interpret clinical pharmacology studies for drugs in phase I-IV. You will prepare reports and summaries for the non-clinical and human biopharmaceutics sections of regulatory submissions and perform a liaison function in these areas with regulatory agencies, joint venture partners and academic collaborators when necessary.

A Ph.D. in pharmacokinetics or a closely related field, 5+ years of experience in pharmacokinetics (including clinical studies), experience with SAS, Excel and WinNonlin, excellent written and oral communication skills and knowledge of the drug development process are essential.

We offer a competitive compensation package. To be considered, please forward your resume to: The Liposome Company, Inc., Dept. CS, 1 Research Way, Princeton, NJ 08540 EOE M/F/D/V



THE
LIPOSOME
COMPANY, INC.

POSITIONS OPEN

RESEARCH OPPORTUNITIES IN DEVELOPMENTAL THERAPEUTICS Frederick Cancer Research and Development Center National Cancer Institute

POSTDOCTORAL POSITIONS are available in the Pharmacology and Experimental Therapeutics Section of the Laboratory of Drug Discovery Research and Development, Developmental Therapeutics Program. Protein chimeras are designed, expressed, and biologically characterized *in vitro* and in mice with the aim of specifically targeting tumor cell growth. Current projects also involve identification of new tumor-related antigens using combinatorial methods. Applicants should have a strong background in molecular biology, particularly antibody engineering, phage display, and recombinant protein expression. Candidates must have three years or less of postdoctoral experience. Send curriculum vitae and correspondence to: **Dr. Susanna Rybak, Laboratory of Drug Discovery Research and Development, NCI-FCRDC, Building 567, Room 162, Frederick, MD 21702. E-mail: rybak@ncifcrf.gov.**

POSTDOCTORAL FELLOWSHIP DIVISION OF HEMATOLOGY Brigham and Women's Hospital Harvard Medical School

A position is immediately available to join an NIH-funded project examining eukaryotic oxygen sensing utilizing yeast as a model system. Applicants should have a Ph.D. and experience in molecular biology and/or yeast genetics.

Please send a curriculum vitae and three references including telephone numbers to:

H. Franklin Bunn, M.D.
Brigham and Women's Hospital
LMRC 222
75 Francis Street
Boston, MA 02115
FAX: 617-739-0748

E-mail: rlafratta@rics.bwh.harvard.edu

Brigham and Women's Hospital is an Equal Opportunity/Affirmative Action Employer.

A **POSTDOCTORAL POSITION** is available to study the regulation of angiogenesis by extracellular matrix. Applicants should have a Ph.D. and/or M.D. and no more than four years of postdoctoral training. Experience with molecular and cell biology techniques is preferred and previous animal experience is desirable. Candidates with exceptional qualifications are eligible for Institute Fellowships with salary supplements.

Please send a curriculum vitae and telephone numbers/e-mail addresses of three references to:

Bela Anand-Apte M.B., B.S., Ph.D.
Lerner Research Institute
Cleveland Clinic Foundation
Department of Ophthalmology and
Cell Biology/NC10
9500 Euclid Avenue
Cleveland, OH 44195
E-mail: anandab@cesmtp.ccf.org

A **POSTDOCTORAL POSITION** is available to study G-protein-mediated signaling pathways involved in the regulation of cell growth (see: *JBC* 272:28829, 1997; *Oncogene* 17:1383, 1998). Applications are encouraged from individuals with strong interest and experience in the area of molecular biology, cell biology, or signal transduction research. Send curriculum vitae and names of three references to: **Danny N. Dhanasekaran, Ph.D., Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3307 North Broad Street, Philadelphia, PA 19140-5101. FAX: 215-707-5963; e-mail: danny@sgil.fels.temple.edu. Equal Opportunity Employer.**

POSTDOCTORAL POSITION available. Seeking individual with electrophysiology experience (preferably, expertise using patch-clamp techniques) to work on projects relevant to modulation of hippocampal excitability and the development of epilepsy in the neonate. Salary will be competitive and commensurate with experience. Please send curriculum vitae, names of three references, and a short (less than one page) description of research interests to: **Dr. S. C. Baraban, Department of Pediatric Neurology, MTH 6090, Case Western Reserve University, 11100 Euclid Avenue, Cleveland, OH 44106. Website: http://neurowww.cwru.edu/faculty/baraban.html.**

POSITIONS OPEN

POSTDOCTORAL POSITION YALE UNIVERSITY SCHOOL OF MEDICINE

Our laboratory is interested in understanding how RNA molecules are folded, processed, assembled with proteins and sorted within cells. Our focus is on RNA-binding proteins that play important roles in these processes (see: *EMBO J.* 17: 7442-7453; *Cell* 89: 393-402; *RNA* 2:769-784). Candidates should possess a recent Ph.D. degree and have experience in biochemistry, genetics, or molecular biology. Please send curriculum vitae, a brief summary of research experience, and the names of three references to: **Dr. Sandra L. Wolin, Departments of Cell Biology and Molecular Biophysics and Biochemistry, Howard Hughes Medical Institute, Yale University School of Medicine, 295 Congress Avenue, New Haven, CT 06536.**

POSTDOCTORAL POSITIONS

Two Postdoctoral positions are available from April 1, 1999, in a laboratory studying mechanisms of axonal damage in human optic nerves and in a primate model of experimental glaucoma. Studies involve regulation of expression of cell adhesion molecules, intermediate filaments, extracellular matrix, and several mediators of cell activity, by biomechanical stress and hypoxia. Candidates with a Ph.D. and a strong background in cell or molecular biology and/or neurobiology are encouraged to apply. Send a letter of application, curriculum vitae, and the names of three references to: **Dr. M. Rosario Hernandez, Department of Ophthalmology and Visual Sciences, Washington University School of Medicine, 660 South Euclid Avenue, Campus Box # 8096, St. Louis, MO 63110.**

POSTDOCTORAL FELLOWSHIP POSITION YALE UNIVERSITY SCHOOL OF MEDICINE

Two Postdoctoral positions are available as part of an NIH-supported training grant for M.D.'s or Ph.D.'s seeking postdoctoral research training in both molecular and cellular neurobiology. Candidates trained in molecular biology, genetics, or electrophysiology are particularly encouraged to apply. Applicants must be U.S. citizens or permanent residents of the United States. For consideration, please send full curriculum vitae and three reference letters to: **Gabriel G. Haddad, M.D. Inquiries to: e-mail: gabriel.haddad@yale.edu; FAX: 203-785-6337. Yale University is an Equal Opportunity Employer/Affirmative Action Employer.**

POSTDOCTORAL POSITION UCLA SCHOOL OF MEDICINE

This post is ideal for an individual wishing to obtain training in functional genomics. The goal is to use large-scale gene expression screening for analysis of behavior in the mouse. Ph.D. and/or M.D. required. Previous experience in molecular biology and mouse genetics desirable, strong interest in technology development essential. Applications should be sent to: **Desmond Smith, Department of Molecular and Medical Pharmacology, UCLA School of Medicine, 23-120 CHS, Box 951735, Los Angeles, CA 90095-1735. FAX: 310-825-6267; e-mail: dsmith@mednet.ucla.edu.**

Two **POSTDOCTORAL POSITIONS** available in the Division of Endocrinology to investigate (A) growth hormone receptor-transcriptional regulation (*JBC* 24760, 1998; *Mol. Endo.* 1291, 1997) and role in cardiac tissues, and (B) genetics of polycystic ovary syndrome and mechanism of insulin effects on steroidogenesis. Send curriculum vitae and references to: (A) **Ram Menon, M.D., or (B) Selma Witchel, M.D., Children's Hospital of Pittsburgh, 3705 Fifth Avenue, PA 15213. E-mail: menonr@chplink.chp.edu or siegels@chplink.chp.edu.**

POSTDOCTORAL FELLOW to study hypertension mechanisms at the University of Virginia. Studies will range from genetic knockout mice to NMR imaging of atherosclerotic plaques. The application must be eligible for two years of NIH training grant support. *U.S. citizen or green card holder only.* Please send letter and curriculum vitae to: **Dr. Ayers and Dr. Rembold, Box 146 HSC, Charlottesville, VA 22908 USA.**

POSITIONS OPEN

MEMBRANE PROTEINS, CELL SIGNALING, CELL COMMUNICATION THE SCRIPPS RESEARCH INSTITUTE

Several **POSTDOCTORAL POSITIONS** are available to participate in novel research initiatives focused on understanding membrane protein structure/function relationships, signal transduction pathways, and gap junctional communication during development and cell proliferation or differentiation. These positions will be funded at a level that is commensurate with the prior experience of the candidates.

Applicants with experience in chemistry, biochemistry, molecular biology, cell biology, and neurobiology are encouraged to apply. If interested, please send a curriculum vitae and three letters of reference to:

Cheryl Negus, Administrative Manager
Department of Cell Biology, MB6
The Scripps Research Institute
10550 North Torrey Pines Road
La Jolla, CA 92037

Affirmative Action/Equal Opportunity Employer.

Several **POSTDOCTORAL POSITIONS** in molecular biology of phenylpropanoid natural products will be available by mid-1999 in the laboratory of **Dr. Richard Dixon**, Director of the Plant Biology Division, at the Samuel Roberts Noble Foundation. Areas of research are regulation of phenylalanine ammonia-lyase at the transcriptional and posttranscriptional levels; signal transduction pathways for the oxidative burst and phenylpropanoid-based defenses; and biochemical and functional genomics approaches to lignin modification in the forage legume *Medicago truncatula*.

Applicants must have demonstrated research productivity in biochemistry and/or molecular genetics. Send a covering letter stating areas of interest, a full curriculum vitae, and three letters of reference to: **Ms. Jane Nance, Human Resources, The Samuel Roberts Noble Foundation, 2510 Sam Noble Parkway, Ardmore, OK 73401 USA. Further details can be obtained from: Dr. Dixon, Telephone: 580-223-5810. The Noble Foundation is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION IN COMPARATIVE NEUROBIOLOGY

Available immediately to study comparative and evolutionary aspects of the neural circuitry underlying feeding behaviors in mollusks. Foci are on electrophysiological, immunocytochemical, morphological, and videomicroscopical studies in a behavioral context. Skills in patch clamp techniques and computer analyses of electrophysiological records would be welcomed. Applications will be accepted until position is filled. Send letter of interest, curriculum vitae, and three letters of reference to: **Crystal McGee, Department of Biological Sciences, M/C 066 845 West Taylor, Chicago, IL 60607. FAX: 312-413-2435; e-mail: crystal@uic.edu. University of Illinois at Chicago is Affirmative Action/Equal Opportunity Employer.**

Penn State. **POSTDOCTORAL POSITIONS.** Evolution of complex traits: the mammalian dentition. The developmental and genetic mechanisms for the evolution of a nested, periodic, axially segmented system. Two positions to be filled: (1) molecular and evolutionary genetics, including transgenic experiments; (2) developmental genetics, including embryonic organ culture and tissue manipulation (mouse and opossum). Applications received by March 1, 1999, will be assured consideration; however, all applications will be considered until the positions are filled. Send curriculum vitae, three referees, statement of interest/experience to: **Dr. Kenneth Weiss, Program in Cell and Developmental Biology, University Park, PA 16802. E-mail: kmw4@psu.edu. Penn State is committed to Affirmative Action/Equal Opportunity and the diversity of its work force.**

POSTDOCTORAL POSITIONS

Postdoctoral positions available to chart and analyze mammalian protein regulatory networks in the context of functional genomics (see: *PNAS* 94:12473-8, 1997). Candidates should be highly motivated with a strong background in molecular and cell biology. \$34,000 to \$40,000 plus benefits per year with institute housing. Send research interests, curriculum vitae, and three references to: **C. Wilson Xu, Ph.D., Box 362, Sloan-Kettering Institute and Cornell University Medical School, 1275 York Avenue, New York, NY 10021. FAX: 212-639-2767; e-mail: w-xu@ski.mskcc.org.**

PENNSTATE



**ASSISTANT PROFESSOR, INSTRUCTOR,
OR POSTDOCTORAL FELLOW
POSITIONS**

G PROTEIN SIGNALING, REGULATION AND FUNCTION

Several Assistant Professor, Instructor or Postdoctoral Fellow positions are available in the Laboratory of Dr. Janet D. Robishaw to study the regulation or function of diverse G protein subunits (see J. Biol. Chem. 270:21765, 1995; and J. Biol. Chem. 272:26040, 1997). For studies on gene regulation, the successful candidate will have experience in promoter analysis of G protein subunits that have been implicated in tumor progression of metastasis, with emphasis on use of transgenic animals. For studies on function, the successful candidate will have experience in molecular biology and/or signal transduction of G protein subunits, with emphasis on use of anti-sense, ribozyme, or gene targeting approaches. Cardiovascular experience is desirable also.

The Weis Center for Research in Danville, PA is part of the Penn State College of Medicine, and provides modern research facilities. The Center is located on the campus of Penn State Geisinger Health System in Danville, PA. This is a pleasant semi-rural living environment with convenient access to the major metropolitan areas of New York and Baltimore.

Interested individuals should send their curriculum vitae and the names of three references to: **Mrs. Barbara A. Brown, Administrative Assistant, Henry Hood Research Program (JDR), Sigfried and Janet Weis Center for Research, Dept. S-4109, 100 North Academy Avenue, Danville, PA 17822-2601.**

Penn State is committed to affirmative action, equal opportunity and the diversity of its workplace.

Merck Research Laboratories in Rahway, New Jersey, a world leader in Biological and Pharmaceutical Research, is recruiting analytical researchers with significant leadership potential. The Basic Chemistry Analytical Support group is seeking scientists for positions in the Protein Mass Spectrometry and Bioanalytical Mass Spectrometry Laboratories.

Protein Mass Spectrometry

The Protein Mass Spectrometry Laboratory is seeking a candidate that will be involved in developing mass spectrometry methodology for characterizing complex protein mixtures. Candidate's responsibilities will include the development of novel separation techniques that will be coupled with microspray LC-MS. Other duties will include isolating and characterizing native and recombinant proteins. The candidate will be required to present research developments at group meetings and will be encouraged to publish original scientific manuscripts.

This position requires an individual with a Ph.D., or the equivalent, in Chemistry or Biochemistry and a minimum of four years experience in protein mass spectrometry. The candidate should have extensive experience in micro-capillary liquid chromatographic techniques and isolation of proteins following separation by high resolution 2-dimensional gel electrophoresis. It is necessary that this individual have good communication skills and the ability to develop ideas and methodology independently.

Bioanalytical Mass Spectrometry

The Bioanalytical Mass Spectrometry Laboratory is seeking a candidate to contribute to the drug discovery efforts of the medicinal chemistry department. The primary responsibilities of this position involve the assay of drug candidates and their metabolites in biological samples in connection with pharmacokinetic screening. Additional responsibilities include conducting in vitro studies addressing drug absorption and metabolism issues.

This position requires an individual with a B.S./M.S. degree in Analytical Chemistry and 2-3 years experience in the area of drug metabolism. Practical knowledge of sample preparation and chromatography are essential, and experience with liquid chromatography/tandem mass spectrometry would be very helpful. Good communication, computer, and instrumentation skills are also required.

For consideration, please send resume and letters of reference to **Merck Research Laboratories, Human Resources, P.O. Box 2000, Ad #81, RY80A-3, Rahway, NJ 07065.** EE0/AA/VH Employer.



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EUROPEAN OPPORTUNITIES



SWEDISH INSTITUTE FOR INFECTIOUS DISEASE CONTROL Program Director BSL-4 Program in Sweden

Swedish Institute for Infectious Disease Control has moved to new facilities at Karolinska Institute Campus in Stockholm. A biosafety laboratory building with BSL-3 and BSL-4 units is under construction and will be ready in the beginning of year 2000.

The National Board of Health and Welfare, the Defence Research Establishment and the Swedish Institute for Infectious Disease Control will support a special BSL-4 program for research and diagnostic development in the area of haemorrhagic fever as well as preparedness to perform acute diagnostic work. We are now recruiting a well qualified scientist to serve as a Program Director. The planned budget for this project will reach 10 millions SEK (about 1.25 million US dollar) year 2001. The successful candidate will have the opportunity to significantly influence the development of the program. Priority will be given to candidates with strong research background and record of accomplishment. Experience from work in a BSL-4 laboratory will be of special importance. The quality of the program should lead to international acceptance and cooperation.

Salary will be negotiable and depending on experience, training and achievements. The candidate must accept a security control. Date of appointment after agreement but preferably mid-99.

Candidates should send a curriculum vitae, reprints of 10 publications and the names of 3 references to Director General Erik Nordenfält, Swedish Institute for Infectious Disease Control, SE-171 82 Solna, Sweden, info@smi.ki.se.

Deadline for application is February 15, 1999.

MRC

Medical Research Council

LABORATORY OF MOLECULAR BIOLOGY POSTDOCTORAL POSITION

Applications are invited for a postdoctoral position to work on the structure of ribosomal components and their complexes with factors and RNA. Suitable candidates should have prior experience in at least one of the following two areas: biochemical approaches to ribosome structure, or macromolecular crystallography, preferably of RNA or protein-RNA complexes. This is an opportunity to make a significant contribution to a major new scientific project, and requires an enthusiastic person who is able to work as part of a small team with a high level of independence. The position will be for 3 years in the first instance with the possibility of renewal for a further two years, and will be within MRC Salary Band 4 (£15,000 – £28,900 per annum).

The starting salary for this position will be based on qualifications and experience and is supported by a performance related pay scheme and MRC Pension Scheme. The site has excellent sports and social facilities.

For further details on the above position, please contact **Dr. Venki Ramakrishnan** by email (V.Ramakrishnan@m.cc.utah.edu) or FAX (001-801-581-7959).

Applications by 19 February 1999 should include 2 copies of a full CV together with the names, addresses and email/fax numbers of two professional referees quoting the reference SS/VR2 to: **Johanna Webb, Personnel Officer, MRC Centre, Hills Road, Cambridge, CB2 2QH, United Kingdom.**

The Medical Research Council is an Equal Opportunities Employer and operates a strict no smoking policy.

POSITIONS OPEN

POSTDOCTORAL RESEARCH SCIENTIST

Candidate should have a background in molecular biology and an interest in joining a group studying ion channels with patch clamp technology and calcium signaling with a unique high-speed digital imaging system. We wish to add to our approach a number of molecular techniques such as yeast two-hybrid screening. The applicant will have the opportunity to learn the biophysical approaches that we presently use and integrate them with molecular techniques. It should prove exciting. Our interests are cellular microdomains and intracellular signaling, with emphasis on smooth muscle and neurons. Salary will be commensurate with experience.

Contact: Professor John Walsh, Department of Physiology, University of Massachusetts Medical School, Worcester, MA 01655-0127. E-mail: john.walsh@ummed.edu.

Molecular medicine POSTDOCTORAL/RESEARCH ASSOCIATE. Several positions are available as part of an interdisciplinary research team using advanced 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 The Center for Molecular Medicine and Genetics, Wayne State University School of Medicine, 275 East Hancock, Detroit, MI 48201. WSU is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at WSU are smoke-free. Wayne State University—people working together to provide quality service.

POSTDOCTORAL RESEARCH ASSOCIATE

A Postdoctoral Research Associate position is available to characterize the interaction of the novel antibiotic bicyclomycin and derivatives with prokaryotic rho transcription termination factor. Applications are encouraged from individuals with a Ph.D. and strong interests in the areas of molecular biology or biochemistry and drug design. Send curriculum vitae and names of three references to: Dr. William R. Widger, Department of Biology and Biochemistry, University of Houston, Houston, TX 77204-5513. FAX: 713-743-8351; e-mail: widger@uh.edu. The University of Houston is an Equal Opportunity Employer.

POSTDOCTORAL POSITION UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE

Nuclear hormone receptors in gene expression, cell differentiation, and metabolism (see: *Nature* 396:377, 1998; *MCB* 18:1785, 1998; *Genes Dev.* 12:1775, 1998; *Genes Dev.* 11:835, 1997). Send curriculum vitae and three references to: Dr. Mitch Lazar, University of Pennsylvania, 611 CRB, 415 Curie Boulevard, Philadelphia, PA 19104-6149. E-mail: lazar@mail.med.upenn.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Immediate position available for a Molecular Immunologist Postdoctoral Fellow or Research Instructor, depending on credentials, to study the effects of xenobiotics on lymphocyte and macrophage signal transduction. Must have a Ph.D. with solid foundation in molecular biology and immunology. Send curriculum vitae and names of three references to: John B. Barnett, Ph.D., Department of Microbiology and Immunology, P.O. Box 9177, West Virginia University, Morgantown, WV 26506-9177. E-mail: jbarnett@wvu.edu.

POSTDOCTORAL POSITIONS

(1) Mammalian gene regulation: prior experience with DNA footprint, transcription factors, etc. (2) Gene therapy: strong molecular skills, retroviral vector experience a plus. (3) Molecular immunology breast cancer: phage display, expression libraries, protein chemistry. Send curriculum vitae and reference names to: Dr. R. Jungmans, Harvard Medical School, FAX: 617-432-7007.

Two POSTDOCTORAL POSITIONS available in basic biology of aging in *Drosophila*: (1) fine-structure mapping of QTL's affecting lifespan; (2) demographic and statistical analyses of mortality trajectories. See website: <http://oldfly.cbs.umn.edu>. Send curriculum vitae and letters of reference to: Dr. J. Curtsinger, 1987 Upper Buford Circle, St. Paul, MN 55108. The University of Minnesota is an Equal Opportunity Educator and Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study the role of the *S. cerevisiae* mismatch repair system in repair and recombination. The work will involve a variety of both genetic and molecular techniques to better understand how the mismatch repair system functions in repair, mutation avoidance, and in preventing recombination between nonidentical sequences. Applicants should have a strong background in molecular techniques. Previous experience with yeast is desired, but not essential. The laboratory is located at Emory University in Atlanta, Georgia. Emory is a rapidly expanding and dynamic university with multiple resources in the biological and biomedical sciences. Please send curriculum vitae and names of three references to: Gray F. Crouse, Department of Biology, Emory University, Atlanta, GA 30322. E-mail: gcrouse@biology.emory.edu.

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POSTDOCTORAL POSITION IN PROKARYOTE MOLECULAR BIOLOGY

Applications are invited to study plasmid maintenance mechanisms, including partition protein-mediated gene silencing (Rodionov et al., *Science* 283 January 22, 1999). A strong research background in molecular genetics or biochemistry is essential. Applicants must have less than five years of postdoctoral experience and give evidence of productivity. Salary commensurate with experience. Send curriculum vitae, reprints, and names of three references to: M. Yarmolinsky, Laboratory of Biochemistry, NCI, NIH, Building 37, Room 4D-15, 37 Convent Drive, Bethesda, MD 20892-4255. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS are available in the Laboratory of Molecular Genetics, National Institute on Aging. For projects on DNA repair, transcription, and their changes with aging and on the molecular genetics of human premature diseases, write: Dr. Vilhelm A. Bohr, Chief, Laboratory of Molecular Genetics, Box 1, National Institute on Aging, NIH, 5600 Nathan Shock Drive, Baltimore, MD 21224. E-mail: vbahr@nih.gov. For projects on the molecular mechanisms of somatic hypermutation of immunoglobulin variable genes, write: Dr. Patricia Gearhart at the same address; e-mail: gearhart@grc.nia.nih.gov. Applicants must have a Ph.D. or equivalent degree with less than five years of research experience. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION is available immediately to study gene expression at the single-cell level in autoimmune neurological disorders. A Ph.D. degree with a strong background and laboratory skills in molecular biology and cell biology, and a knowledge of immune cell genes and interactions are essential. Please send curriculum vitae and names of three references to: Dr. Norman Latov, Department of Neurology, Columbia University, 630 West 168th Street, Room 3-309 BB, New York, NY 10032. E-mail: nl2@columbia.edu; FAX: 212-305-3986. Columbia University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Neurotrophins (nerve growth factor, NGF) and their receptors (Trk, p75). Molecular biological, spectroscopic, and microcalorimetric characterization of ligand-receptor interactions of recombinant proteins involved in neurodevelopment. Kenneth E. Neet, Ph.D., Department of Biochemistry and Molecular Biology, Finch University of Health Sciences/Chicago Medical School, North Chicago, IL 60064. E-mail: neetk@finchms.edu; FAX: 847-578-3240.

POSTDOCTORAL POSITION NEUROBIOLOGY

Studies on the development of neural circuitry in the *Drosophila* visual system (see: *Cell* 78:437; *Cell* 86:411; *Cell* 95:693). Send curriculum vitae and references to: Prof. Sam Kunes, Room 433, 7 Divinity Avenue, Harvard University, Cambridge, MA 02138. E-mail: kunes@husc.harvard.edu.

POSTDOCTORAL POSITIONS in signal transduction. Our laboratory works on the role of integrins in modulating signals. A Ph.D. with significant experience in cell and molecular biology is essential. Send curriculum vitae and names of two references to: Dr. R. L. Juliano, Department of Pharmacology, CB# 7365, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7365. An Equal Opportunity/Affirmative Action Employer.

GRANTS

BRAIN TUMOR RESEARCH

The Brain Tumor Society announces the availability of GRANT FUNDING for any project with the potential to advance basic scientific research focused on brain tumors. Funds may be used for start-up projects or for supplementary funding.

Funding: Grants will be awarded annually for up to a two-year period, at a maximum of \$50,000 per year. Grants will be limited to research being conducted in the following states: Connecticut, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Washington, D.C.

Application deadline: April 1, 1999.

For information and application forms:

The Brain Tumor Society
84 Seattle Street
Boston, MA 02134-1245
Telephone: 617-783-0340 or 800-770-8287
Website: www.tbts.org
E-mail: info@tbts.org

ENVIRONMENTAL SCIENCE MINIGRANTS TO BE AWARDED SPRING OF 1999

The Environmental Defense Fund (EDF), a national not-for-profit environmental organization, requests letters of inquiry that describe potential proposals for research projects at a maximum cost of \$15,000 related to topics of substantive interest to EDF. Letters should be no longer than one page and should describe the research topic, its relevance to environmental policy, amount of funding requested, and major expenditure items. Letters are due no later than March 1, 1999. Principal Investigator must hold the equivalent of a faculty position at a public or private college or university. See EDF's website for details (<http://www.edf.org/minigrant/index.html>). Send letters to: Georgia Pease, Minigrant Coordinator, Environmental Defense Fund, 257 Park Avenue South, New York, NY 10010. No telephone calls please. EDF is an Equal Opportunity Employer.

ANNOUNCEMENT

THE LOUIS AND ARTUR LUCIAN AWARD FOR RESEARCH IN CIRCULATORY DISEASES

Each year a Committee from the McGill University Faculty of Medicine confers the Louis and Artur Lucian Award (\$40,000 Can.) for outstanding research in the field of circulatory diseases. The purpose of this Award is to honor a Scientific Investigator or group of Investigators whose contribution to knowledge in this field is deemed worthy of special recognition. The successful recipient is invited to spend a short period of time at McGill University to give a formal Lucian Lecture and to have interchanges with members of the McGill community. Submissions should be received on or before April 1, 1999.

For information and requests of nomination forms, please contact: Dr. René P. Michel, Secretary, The Louis and Artur Lucian Award Committee, McGill University, Department of Pathology, 3775 University Street, Montreal, Quebec H3A 2B4 Canada. Telephone: 514-398-7192, ext. 7194; FAX: 514-398-7446; e-mail: michel@pathology.lan.mcgill.ca.

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FACULTY POSITION IN MARINE ECOLOGY

Townsville, Australia

Ref No: JI98160

The School of Marine Biology and Aquaculture is seeking to build its strengths in quantitative marine ecology, a core component of its teaching and research program. While applicants with appropriate postdoctoral experience and interests in nearshore marine ecology are particularly sought excellent candidates with interests in other ecological areas will also be considered. Expertise in experimental design, familiarity with multivariate analysis and field program experience will be an advantage. The appointee will initially teach a second year undergraduate course in quantitative marine ecology but will also have the opportunity to contribute to undergraduate and postgraduate subjects in biometry and experimental design. The appointee will also provide advice to research students and staff on statistical analysis and experimental design.

James Cook University has an internationally recognised research and teaching program in Marine Biology. Staff and post-graduates have a particularly strong record in gaining competitive research funding and have a leading role in the allocation of research infrastructure and research quantum within the University. Marine Biology is highly placed in national evaluations of undergraduate teaching programs, and has the largest postgraduate program within JCU. Marine Science is a core area in the University's strategic research plan.

Tenure: Appointment will be on a continuing basis, subject to a probationary period.

Salary: Lecturer (Academic Level B) - \$A47,905-\$A56,684 a year. Commencing salary according to qualifications and experience. Benefits include employer superannuation contribution, attractive options for salary packaging.

Additional information on the School can be obtained on http://www.jcu.edu.au/dept/Marine_Biology/

Information packages including selection criteria and application procedures may be obtained by contacting the Recruitment Officer, Faculty of Science and Engineering, James Cook University, Townsville Qld 4811, Australia. Telephone +61 7 4781 6834; Facsimile +61 7 4781 6844; Email: Terri.Williamson@jcu.edu.au or the package may be accessed on [<http://www.jcu.edu.au/archives/staff-recruitment/maillist.html>]

Applications close on 12 March 1999. Please quote the reference number.

The University reserves the right to appoint by invitation or not to make an appointment.

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JAMES COOK UNIVERSITY



Being the most established tertiary education institution in Hong Kong, The University of Hong Kong has attained unparalleled achievements since 1911 in Hong Kong and the Region by drawing on the great cultural traditions of China and the West. In recent years the University has emerged as a major research institution with nine faculties, a School of Business and more than 100 departments and sub-divisions of studies and learning. There is currently an enrolment of more than 15,000 students, full-time and part-time, of which 4,000 are at postgraduate level. Overseas students from more than 40 countries are attracted to HKU to pursue the research degrees of PhD and MPhil. English is the language of instruction.

Our firm commitment to research excellence and internationalisation has established the University as one of the top research universities in the Region. We are committed to our vision of globalisation and enhancing our research excellence.

Assistant Professor in Chemistry Education

Applications are invited for appointment as Assistant Professor in Chemistry Education in the Department of Curriculum Studies (Ref.: RF-98/99-97) tenable from 1 September 1999. The appointment will initially be made on a three-year fixed-term basis, with a possibility of renewal.

The Department of Curriculum Studies seeks to play a pivotal role in teacher education in Hong Kong and to support the University's determination to retain its international standards and status, and its unique position within China and Asia.

Applicants should have a relevant PhD degree, a professional teaching qualification and at least 5 years' relevant secondary school teaching experience. Applicants with an MEd degree but currently pursuing PhD studies may also be considered.

The appointee is expected to contribute to Teacher Education programmes in Science Education with special emphasis on Chemistry Education. Familiarity with curriculum and pedagogical developments in Science Education in general and Chemistry Education in particular is essential. Preference will be given to those who can also (i) support the teaching of cross-curricular areas such as Information Technology in Education and (ii) enhance the Department's research activities.

Annual salary [attracting 15% (taxable) terminal gratuity] for an Assistant Professor (in the grade of Lecturer) is on an 11-point scale, with starting salary depending on qualifications and experience: HK\$554,280 - HK\$925,980* (approx. \$42,637 - \$71,229) (sterling equivalents as at 17 December 1998). * An appointee with an annual salary at HK\$740,640 (approx. \$56,972) or above may be considered for the award of the title of Associate Professor. At current rates, salaries tax will not exceed 15% of gross income. The appointment carries leave, medical and dental benefits, an allowance for children's education in Hong Kong, and, in most cases, a financial subsidy under the Home Financing Scheme for reimbursing either the actual rental payments or the actual mortgage repayment may be provided.

Further particulars and application forms can be obtained on WWW at <http://www.hku.hk/apptunit/>; or from the Appointments Unit (Senior), Registry, The University of Hong Kong, Hong Kong (Fax (852) 2540 6735 or 2559 2058; E-mail: APPTUNIT@REG.HKU.HK). Closes 20 February 1999.

The University is an equal opportunity employer and is working towards a smoke-free environment

EUROPEAN OPPORTUNITIES

POSTDOCTORAL POSITION to develop novel image processing methods for three-dimensional reconstruction of biological particles from electron micrographs with low signal-to-noise ratios. We are seeking a candidate with solid knowledge of statistics and mathematics. A background in image/signal-processing and/or physics is desirable. The position is funded through a stipend from the Max-Planck-Institute for two years, with the possibility of an extension for one year. The position is within a research group for single particle reconstruction in the Department of Structural Biology. Applications including a detailed curriculum vitae and three references should be sent to: **Dr. M. Radermacher, Max-Planck-Institut für Biophysik, Abteilung Strukturbiochemie, Heinrich Hoffmann Strasse 7, 60528 Frankfurt/M., Germany.** Application deadline is February 28, 1999, or until position is filled. *Bei gleicher Eignung werden Schwerbehinderte bevorzugt berücksichtigt.*

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