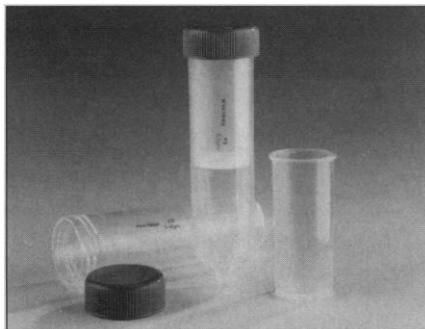


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### PRODUCTS



buy extra equipment to use it; it fits most common centrifuge rotors, both fixed-angle and swing-out types, and rotor adapters with 30-ml slots. **Whatman International.** For information call (01622) 676670 or circle 140 on the Reader Service Card.

### Large-Volume Centrifuge Tube Filter

The VectaSpin 20 is a centrifuge tube filter for samples of up to 20 ml. VectaSpin 20 consists of a polypropylene, pigment-free receiving tube with a resealable cap into which a 20-ml filtering insert is placed. The insert can include a variety of filter membranes or a coarse polypropylene mesh; the sample is placed into this insert. Filtration is accomplished by spinning the entire assembly in a laboratory centrifuge. There is no need to

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The Optima series is a new generation of inductively coupled plasma-optical emission spectrometers (ICP-OES). Each system is available in radially viewed, axially viewed, or dual-view configurations. Because the ultraviolet detectors are large, the spectrometers feature a detector wavelength range

extended from 375 nm to 403 nm. Added and enlarged subarrays provide an enhanced wavelength set. The series includes a single-detector instrument, a single detector instrument with an optical system that can determine key visible range elements such as lithium and potassium at their optimum wavelengths with no need for a second detector, and a dual-detector version with simultaneous measurement and full wavelength range coverage. **Perkin-Elmer.** For information call 800-762-4000 or circle 141 on the Reader Service Card.

### Neuroscience Imaging Camera

The NeuroCam is designed for the study of rapid neuronal processes, such as the propagation of electrical impulses along nerve cells. The design was inspired and refined by pioneering studies of the electric fields in single neurons, and from studies making use of voltage-sensitive dyes. This camera can contribute to a wide range of fluorescence and absorbance studies, providing higher resolution and lower noise imaging than photodiode arrays. NeuroCam consists of an 80 by 80 pixel charge-coupled device camera with thermoelectric cooling to  $-40^{\circ}\text{C}$  and high precision electronics to acquire very low noise, 12-bit images at 600 to 800 frames per second and faster. **Olympus America.** For information call 800-446-5967 or circle 142 on the Reader Service Card.

### Needle Microprobes Measure Temperature

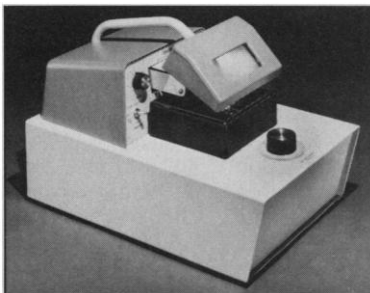
An extensive range of fast-response needle microprobes give almost instant temperature readings in brain and muscle tissue, semi-solids, and liquids. They have sealed tips to ensure that only surgical-grade stainless steel contacts the specimen. Lengths range from 1 cm to 8 cm. They are accurate to  $0.1^{\circ}\text{C}$ . **Physitemp Instruments.** For information call 201-779-5577 or circle 143 on the Reader Service Card.

### IR Cell Polishing Kit

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### Cytogenetics Workstation

The Q550CW is a cytogenetics workstation for automated karyotyping, fluorescence in situ hybridization and comparative genomic hybridization imaging, analysis, printing, and archiving. Applications include karyotyping with the ability to identify each chromosome with a different color. By using differentiating



ratio combinations of five fluorochromes and appropriate filter cube sets, it is possible to discriminate between the 24 different spectra needed to label each chromosome pair. The workstation includes an automated karyotyping software package compatible with a wide variety of preparation methods. Leica. For information call 800-248-0123 or circle 145 on the Reader Service Card.

### Handheld Atmospheric Meter

Microtops II is a handheld instrument that calculates total column ozone thickness by measuring direct solar ultraviolet (UV) radiation at three discrete wavelengths within the UV-B range. It can also be configured to measure total water vapor and aerosol optical thickness. The instrument provides information for meteorological stations, scientific and educational institutions, and pollution monitoring agencies. Solar Light. For information call 215-927-4206 or circle 146 on the Reader Service Card.

### Sample Preparation Tool for Microscopy

The Micro Plane is a tool for preparing samples for transmission analysis inexpensively. Samples prepared for infrared microanalysis need to meet specific criteria for transmission analyses in which the ideal sample thickness is between 5 and 20  $\mu\text{m}$ . In the past, this process required expensive tools.

The Micro Plane allows the user to plane or scrape the surface of polymers or other solid materials to produce a uniform slice thickness. Thickness is controlled through simple adjustment of the angle and position of the cutting blade. It is available with either a carbide-steel or diamond-edge blade. The carbide-steel version is for planing thin sections from most polymers, tissue samples, and coated materials. The diamond-edge version is for cutting hard polymers and inorganic samples and scraping metallic surfaces. Spectra-Tech. For information call 800-243-9186 or circle 147 on the Reader Service Card.

### Central Nervous Research Mouse

The *mdr1a/b* Double Knockout Mouse contains a disruption of multi-drug resistance genes *mdr1a* and *mdr1b*, has a functional deficiency in the blood-brain barrier, and is applicable to a wide range of central nervous system research. This mouse can be used for studies involving neurotoxicology, drug transport, chemotherapy, oral bioavailability, and multi-drug resistance. Taconic. For information call 888-TACONIC or circle 148 on the Reader Service Card.

### Literature

*Life Science Research: 1998 Catalog and Price List* includes immunochemicals, purified immunoglobulins, antibodies, conjugates, substrates and buffers, growth factors, and more. Sigma. For information call 800-325-3010 or circle 149 on the Reader Service Card.

*Column Selection Guide*, for choosing analytical and preparative liquid chromatography columns, contains decision-tree diagrams that allow users to narrow their choices based on applications, molecular weight of target compounds, chromatography modes, pH, and other variables. Amino acids, peptides, proteins, nucleic acids, saccharides, synthetic macromolecules, and general, low molecular weight organic compounds are included. TosoHaas. For information call 800-366-4875 or circle 150 on the Reader Service Card.

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



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(P.Chomczynski and K. Mackey Anal.Biochem. 225: 163, 1995. Biotechniques. 19:942, 1995.)

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## POSITIONS OPEN

### CHAIR DEPARTMENT OF PHARMACEUTICAL SCIENCES University of Maryland School of Pharmacy

The University of Maryland (UM) School of Pharmacy is extending its search for Chair of the Department of Pharmaceutical Sciences and invites applications and nominations of outstanding individuals. The successful candidate will have excellent interpersonal skills, the ability to foster collaborative and interdisciplinary initiatives, and a commitment to continue the development of a large group of productive faculty into an outstanding department in both research and education. The position requires the ability to lead and manage a large department and to contribute to the leadership of the School. Candidates are expected to have credentials commensurate with appointment as a tenured faculty member. Although training and experience in academic pharmacy is desirable, it is not required. Candidates with research interests in related disciplines or experience in industry are encouraged to apply.

The Department of Pharmaceutical Sciences, one of two departments in the School, incorporates biomedical chemistry, pharmaceuticals, and pharmacology. It now has 30 full-time faculty members and 75 graduate students. It has one of the most modern industrial and pharmaceutical technology research and manufacturing facilities in the country. Opportunities exist for considerable expansion of our programs with the addition of faculty positions and departmental space.

The School of Pharmacy shares its downtown Baltimore location with Medicine, Dentistry, Nursing, Law, Social Work, and The Graduate School. The University of Maryland Medical System, Baltimore VA Medical Center, and Medical Biotechnology Institute combine with the professional schools to make UM the fourth fastest growing research center in the country, with over one billion dollars of new building in the past decade.

Previous candidates may be reviewed for further consideration and do not need to reapply.

Direct nominations or applications with a letter of interest, curriculum vitae, and names, addresses, and telephone numbers of at least three references to: **Dr. Robert J. Michocki, Chair, Pharmaceutical Sciences Department, Chair, Search Committee, School of Pharmacy, University of Maryland, 100 Penn Street, Suite 205D, Baltimore, MD 21201. Telephone: 410-706-3267; e-mail: [michocki@pharmacy.ab.umd.edu](mailto:michocki@pharmacy.ab.umd.edu).**

The University of Maryland is an Equal Opportunity/Affirmative Action/ADA Employer. Minorities and women are encouraged to apply.

### BACTERIAL PATHOGENESIS FACULTY POSITION DEPARTMENT OF MICROBIOLOGY Dartmouth Medical School

The Department of Microbiology invites applications for a **TENURE-TRACK** faculty position to expand the Bacterial Pathogenesis Program at Dartmouth. The successful applicant will join a faculty that has strong research and teaching credentials in pathogenesis, immunology, and parasitology. Junior or Senior applicants specializing in molecular analysis of bacterial pathogenesis or host-microbe interactions are preferred. Senior candidates should have a strong record of research accomplishment with sustained program growth and funding. Junior candidates will be expected to develop a strong, independent research program with long-term growth potential. Teaching components would include participation in medical microbiology, undergraduate microbiology, and a graduate course in the Molecular and Cellular Biology (MCB) Graduate Program.

This position affords the opportunity to utilize the state-of-the-art facilities and resources associated with a major research and teaching institution while enjoying the quality of life characteristic of the area of New England surrounding the Dartmouth community. For further information on Dartmouth, the Department of Microbiology, and the MCB program, see the medical school and graduate program listings at **website: [www.dartmouth.edu/](http://www.dartmouth.edu/)**.

Applications should consist of a curriculum vitae, a brief statement of research interests and plans, and three letters of reference to: **Dr. Ronald K. Taylor, Department of Microbiology, Dartmouth Medical School, Vail Building, Hanover, NH 03755-3842. Dartmouth Medical School is an Affirmative Action/Equal Opportunity Employer.**

## POSITIONS OPEN

### FACULTY POSITION IN BIOMEDICAL ENGINEERING PHARMACOLOGY AND PHYSIOLOGY University of Rochester

The University of Rochester invites applications for a new tenure-track position in Biomedical Engineering to be filled at the **ASSISTANT PROFESSOR** level. Biomedical engineering is an interdepartmental program and the primary appointment will be held in the Department of Pharmacology and Physiology in the School of Medicine and Dentistry. (Another position in the program is open in the Department of Chemical Engineering in the School of Engineering and Applied Sciences.) Candidates qualified for higher ranks will also be considered. Applicants must have earned the Ph.D. or M.D. degree and have completed significant postdoctoral training. Preference will be given to applicants whose research interests complement existing strengths in the areas of cell signaling, cellular mechanics, vascular biology, and growth and development, although outstanding candidates with research interests that integrate engineering and biology at the cellular level will also be considered. The University of Rochester has recently instituted degree programs in biomedical engineering at the doctoral, Master's, and Bachelor of science levels. In addition, the University of Rochester Medical Center has recently embarked on an exciting strategic plan, which includes recruitment of new faculty, construction of a new biomedical research building, and significant growth in the interdisciplinary areas of aging and development, cancer, and vaccine biology. The successful candidates will be expected to develop independent, extramurally funded research programs and to participate in our graduate and professional teaching programs. Review of candidates will begin immediately and will continue until the positions are filled. Applicants should send their curriculum vitae, three recent reprints, a statement of research interests and plans, and the names of three referees to: **Dr. Richard E. Waugh, Faculty Search Committee, Department of Pharmacology and Physiology, University of Rochester Medical Center, 601 Elmwood Avenue, Box 711, Rochester, NY 14642-8711.** For information about the program, see our websites: <http://www.seas.rochester.edu:8080/bme> and <http://www.urmc.rochester.edu/smd/phph>. The University of Rochester is an Equal Opportunity/Affirmative Action Employer; applications from women and underrepresented minorities are encouraged.

### FACULTY POSITION YALE UNIVERSITY DEPARTMENT OF MOLECULAR BIOPHYSICS AND BIOCHEMISTRY

The Department of Molecular Biophysics and Biochemistry is seeking candidates at the **ASSISTANT PROFESSOR** level in the fields of high-resolution cryo-electron microscopy and macromolecular solution NMR. Our department spans a broad range of areas from structural to molecular biology, and is located in both the Faculty of Arts and Sciences and the School of Medicine of the University. Applications should include a curriculum vitae, a statement of research interests, reprints or preprints, and three letters of references to be forwarded separately. Completed applications should be sent to: **Faculty Search Committee, Department of Molecular Biophysics and Biochemistry, Yale University, 266 Whitney Avenue, P.O. Box 208114, New Haven, CT 06520-8114. Telephone: 203-432-5593.** Application deadline: April 1, 1998. Yale University is an Affirmative Action/Equal Opportunity Employer.

### CHAIR AND PROFESSOR DEPARTMENT OF PHARMACOLOGY

Ph.D., M.D., or equivalent degree in medical sciences. Candidate must have a strong research program and a commitment to excellence in graduate and medical student education. Must have strong biomedical research publication record with extramural research support. Preference will be given to applicants whose research expands and complements existing departmental research, which includes neuropharmacology; skeletal, cardiac, and smooth muscle molecular pharmacology; and vascular cell biology. Applications received by March 20, 1998, will be given full consideration. Submit a letter of application, curriculum vitae, description of research program, and the names of three references to: **Chair, Pharmacology Search Committee, Dean's Office/332, University of Nevada School of Medicine, Reno, NV 89557-0046. Affirmative Action/Equal Opportunity Employer.**



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### In Vivo Pharmacologists

D.V.M., M.D., Ph.D. in biology, pharmacology or endocrinology, with a minimum of 4 years post-doctoral experience. Candidates should have a broad background in the physiology of bone and experience in the in vivo evaluation of changes in bone mineral density through the use of DEXA, pQCT and histomorphometry and the ability to design and execute in vivo models to test therapeutic agents on bone. **Code: PRSM17DBA**

B.S./M.S. in pharmacology or related field, minimum of 2 years post-degree experience in basic animal handling, dosing and histological evaluation of tissues. Experience in bone histology and use of computerized instrumentation for the evaluation of bone mineral density a plus. **Code: PRSM17DBB**

### Cell Biologists/ Biochemists

Ph.D. in biochemistry or cell biology, with a minimum of 3 years post-doctoral experience. Broad experience in biochemistry and with a wide variety of assays (photometric, immunological and cell-based), automation, data capture and analysis, development of SAR and lead identification a must. Able to conceive, design and execute assays for the evaluation of pharmaceutical agents. Previous experience in bone biology and nuclear hormone receptors a plus. **Code: PRSM17DBC**

B.S./M.S. in biochemistry, cell biology or related field, minimum of 2 years post-degree experience. Demonstrated experience in basic biochemistry, including protein purification and characterization and development and validation of high-throughput assays for various enzyme and receptor targets. Bone and molecular biology experience a plus. **Code: PRSM17DBD**

### Molecular Biologists

Ph.D. in molecular biology or cell biology, with a minimum of 3 years post-doctoral experience. Broad experience in molecular biology, including multiple cloning strategies, expression systems and novel gene identification. Able to design and execute cloning strategies, express the cloned gene and design cell-based expression systems to determine gene function and to assay pharmaceutical agents for activity against the cloned target. Previous experience in bone biology a plus. **Code: PRSM17DBE**

B.S./M.S. in biochemistry, cell biology or related field, minimum of 2 years post-degree experience. Able to use basic molecular biology skills, including cloning and expression, to establish expression of cloned targets in cells for use in high-throughput assays. **Code: PRSM17DBF**



# CLINICAL BACTERIOLOGY LABORATORY DIRECTOR

**Wadsworth Center  
New York State Department of Health  
Albany, New York**

The Wadsworth Center is seeking a highly qualified individual to direct its Clinical Bacteriology Laboratory.

Candidates must have a doctoral degree and a strong background in clinical microbiology, with an emphasis on bacteriology. Board certification (ABMM) in medical microbiology (ASM) or specialist in microbiology (ASCP) is encouraged but not required. Responsibilities include direction of the diagnostic/reference laboratory and the state Proficiency Testing program. Close cooperation with epidemiologists and participation in a CDC-sponsored Emerging Infections Program play significant roles in this position. Pursuit of research programs is encouraged, and there are ample opportunities for collaborative efforts. Candidates should have a minimum of four years' post-doctoral experience in a clinical microbiology laboratory. Salary will be commensurate with training and experience.

The Clinical Bacteriology Laboratory is located within a modern, well-equipped facility which is part of the Wadsworth Center—a unique biomedical and environmental institution with more than 200 scientists and 800 support staff. The Clinical Bacteriology Laboratory is a part of the Division of Infectious Disease, which includes diagnostic immunology, mycobacteriology, mycology, parasitology, sexually transmitted disease, virus isolation, HIV serology, and tick-borne disease laboratories. Basic and applied research laboratories in many disciplines define an outstanding scientific environment, while centralized core facilities in biochemistry, immunology, molecular genetics, and computational biology provide state-of-the-art instrumentation and support services. Doctoral and post-doctoral training programs within the Wadsworth Center provide mentoring opportunities for faculty in graduate education at the School of Public Health. Additional information about the Wadsworth Center can be found at <http://www.wadsworth.org>.

New York State's Capital District presents a high quality of living, with numerous cultural and recreational opportunities. The City of Albany has beautiful natural surroundings, and the major metropolitan areas of the Northeast are within easy reach.

The Wadsworth Center is an Affirmative Action/Equal Opportunity Employer. Women and Minorities are encouraged to apply.

Applicants should submit a Curriculum Vitae, names and addresses of five references, and a brief description of their laboratory experience to: Dr. M. Shayegani, Search Committee Chair, Wadsworth Center, New York State Department of Health, P.O. Box 22002, Albany, New York 12201-2002, Tel: 518-474-4177, Fax: 518-486-7971.



**N.Y.S. DEPARTMENT OF HEALTH**

## MICROBIAL PATHOGENESIS

The Department of Microbiology of the University of Virginia School of Medicine invites applications for a tenure-track faculty position at the rank of Assistant or Associate Professor. Candidates are sought to establish a research program using genetic and biochemical approaches to investigate molecular mechanisms of microbial pathogenesis, especially in the area of host-pathogen interactions, immune evasion, or signal transduction. Candidates should possess a Ph.D. or M.D. degree and postdoctoral experience. The faculty member will be expected to establish a productive and recognized research program, participate in graduate and medical teaching, and interact with faculty from basic science and clinical departments in collaborative research and training programs in microbial pathogenesis and infectious disease. Preference will be given to candidates with a demonstrated record of research support.

The department provides modern research space, numerous support facilities for molecular and cellular investigation, and a collegial faculty with interests in eukaryotic signal transduction, immune recognition, microbial pathogenesis, and molecular genetics. Many opportunities exist for collaboration in related areas of medicine, infectious disease, gastroenterology, and cardiovascular disease. Applications should be submitted by 1 May 1998 and should include a curriculum vitae, list of publications, and description of research plan. This information and three letters of reference are sent to: Microbial Pathogenesis Search Committee, Department of Microbiology, School of Medicine HSC 441, University of Virginia, Charlottesville, VA 22908. Information about the department can be viewed at: [www.med.virginia.edu/som-bs/micr/core.html](http://www.med.virginia.edu/som-bs/micr/core.html).

*The University of Virginia is an  
Equal Opportunity/Affirmative Action Employer*



The USDA, Agricultural Research Service, Beltsville Agricultural Research Center, Plant Sciences Institute, Insect Biocontrol Laboratory, in Beltsville, Maryland is seeking candidates for two research scientist positions.

**Research Molecular Biologist/ Microbiologist, GS-401/403-12/13, (GS-12: \$47,066–\$61,190 per year, GS-13: \$55,969–\$72,758 per year), announcement number ARS-D8B-095/B-8-05, conducts independent and cooperative research on the development of transgenic plants carrying deleterious gene(s) for the control of insect pests of economic importance to American agriculture. In addition to the basic education requirements for this position, applicants must demonstrate 1) knowledge of the principles, techniques, and procedures of molecular biology and microbiology, 2) ability to design, plan, conduct, and analyze research, and publish results, 3) skill in the application of techniques and procedures used in the study of transgenic systems of plants, and 4) skill in the use of molecular/microbiological techniques such as PCR, gene cloning, DNA sequencing, protein purification and characterization, and recombinant DNA methods, and 5) skill in the isolation of genes and gene products deleterious to insect pests.**

**Research Molecular Biologist/ Microbiologist, GS-401/403-11/12, (GS-11: \$39,270–\$51,049 per year, GS-12: \$47,066–\$61,190 per year), announcement number ARS-D8B-071/B-8-04, conducts independent and cooperative research on the development of transgenic insect cells and insects as well as transgenic plants carrying deleterious genes for the control of insect pests of economic importance to American agriculture. In addition to the basic education requirements for this position, applicants must demonstrate 1) knowledge of the principles, techniques, and procedures of molecular biology and microbiology, 2) ability to design, plan, conduct, and analyze research, and publish results, 3) skill in the application of techniques and procedures used in the study of transgenic systems of animals or plants, 4) skill in the use of molecular/microbiological techniques such as PCR, gene cloning, DNA sequencing, protein purification and characterization, and recombinant DNA methods.**

**Candidates must be U.S. citizens.** For information on the research program, contact Dr. Shapiro on (301) 504-5689. This position has specific education and experience requirements and factors that must be addressed. In order to ensure submission of a complete application, applicants must request a copy of the vacancy announcement by calling (301) 344-8057 or by printing it from the Internet at <http://www.ars.usda.gov>.

*USDA/ARS is an Equal Opportunity Employer.*

## ASSISTANT PROFESSOR SCHOOL OF PUBLIC HEALTH AND COMMUNITY MEDICINE DEPARTMENT OF EPIDEMIOLOGY AND PUBLIC HEALTH GENETICS PROGRAM UNIVERSITY OF WASHINGTON

The Department of Epidemiology and the new multidisciplinary program in Public Health Genetics are seeking one or more outstanding faculty members in genetic epidemiology, in collaboration with several other departments and schools at the University of Washington.

**Academic Focus and Qualifications:**

M.D. or Ph.D. in epidemiology or human genetics required with accomplishments in genetic epidemiology demonstrated by a record of peer-reviewed publications or independent research grant funding.

**Responsibilities:**

1. Participate in developing the graduate-level, multidisciplinary academic program in Public Health Genetics. This will include classroom teaching and advising graduate students. Assist in developing and submitting training grants to support Master's and Ph.D. students in the Public Health Genetics Program.

2. Develop an independent, externally funded research program in Public Health Genetics and/or Genetic Epidemiology with emphasis on chronic diseases such as diabetes and cardiovascular disease. Foster collaborative relationships with other units at the University of Washington and its affiliated institutions.

*The University of Washington is building a culturally diverse faculty and strongly encourages applicants from female and minority candidates.*

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

Interested applicants should submit a letter by April 1st, 1998, with a statement of research interests, curriculum vitae, and at least four references to: Department of Epidemiology Genetics Search, Attn: James L. Gale, M.D., Search Chair, Box 357236, University of Washington, Seattle, WA 98195-7236.

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Dedicated to improving the quality of life of people throughout the world, Rhône-Poulenc Rorer is a company focused on research and innovative technologies. By pioneering some of our industry's most impressive technological and pharmaceutical innovations, RPR and our 26,000 employees worldwide have created a new standard by which excellence is measured. As our corporation expands to meet the increasing needs of patient populations, our demand for dedicated, pioneering and innovative individuals has never been greater.

**CORE BIOTECHNOLOGIES**

The Protein Biochemistry group has 2 positions available, one Ph.D. and one BS/MS. In these positions you will be responsible for the expression, purification and characterization of recombinant proteins for screening. Experience with FPLC, HPLC, column chromatography, expression of recombinant proteins in *E. coli*, insect and mammalian cells, and large scale cell culture are required. The senior position requires a Ph.D. in Biochemistry or a related field with 2-5 years industrial experience in recombinant protein production and some supervisory experience.

The associate level position requires a BS/MS in Biochemistry or related field with 2-5 years industrial experience in purification of recombinant proteins. Position (SD-CB).

**CARDIOVASCULAR**

The Department of Cardiovascular Research has a position available for a Ph.D. in Pharmacology, Physiology or equivalent with at least 2 years postdoctoral experience in thrombosis or vascular biology research. A solid background in developing and implementing *in vivo* models of Thrombosis is essential.

Numerous positions are available for candidates with a BS/MS in Pharmacology, Molecular Biology, Cell Biology, or a related field of science to aid in the discovery of novel therapeutic targets in Cardiovascular Research. The ideal candidates will have 3-5 years experience in at least one of the following areas: myocyte biology; library construction; *in situ* PCR; virus production or surgical skills. Position (SD-CV).

**LEAD DISCOVERY**

The Lead Discovery Group, comprised of both combi-chem and high throughput screening centers, is involved in all phases of drug discovery from target identification to lead optimization. We are seeking candidates who possess strong communication skills and the ability to work in a multi-disciplinary team-based environment.

The Combinatorial Chemistry section is seeking associate level candidates who possess a BS or MS degree in Organic Chemistry and are familiar with modern synthetic and analytical techniques. An

interest in laboratory automation is a plus. Senior level candidates must possess a Ph.D. in either Synthetic or Medicinal Chemistry.

The High Throughput Screening section has several openings at all degree levels. We are currently seeking individuals who possess a BS/MS degree in the Life Sciences, and have experience in automation and laboratory robotics. We are also seeking senior level candidates who possess a Ph.D. in Physical Organic Chemistry with experience in the characterization of enzymes and receptors, and a Ph.D. in Cell Biology, with a proven track record in large scale cell production. Position (SD-LD).

**COMPUTER-ASSISTED DRUG DESIGN (CADD)**

We are seeking individuals with a Ph.D. in Computational or Organic Chemistry with a minimum of 4 years experience in Computer-Assisted Drug Design (CADD)/Molecular Modeling. Prior experience with the application of genetic algorithm based or related methods to CADD problems such as ligand-receptor docking, QSAR and library design is required. Position (SD-CADD).

In addition to an exciting and dynamic environment, Rhône-Poulenc Rorer offers a competitive salary, comprehensive benefits, an ideal location, and the opportunity for advancement. Interested, qualified candidates should forward resume, indicating position of interest to: **Human Resources Manager, R&D, Rhône-Poulenc Rorer, 500 Arcola Road, Position \_\_\_\_\_, P.O. Box 5096, Mailstop H37, Collegeville, PA 19426. Equal Opportunity Employer M/F/D/V.**



QUINNIPIAC COLLEGE

## ANALYTICAL CHEMISTRY/INSTRUMENTATION TENURE TRACK ASSISTANT PROFESSOR

Quinnipiac College is an independent, nonsectarian, coeducational institution located in Hamden, CT, 90 minutes north of New York City and 45 minutes from Hartford. The College has approximately 230 full-time faculty and enrolls 3500 undergraduates and 2000 graduate students in its Schools of Business, Health Sciences, Law, Liberal Arts, and the Tator School for Lifelong Education. Quinnipiac is rated #11 among the top northern regional universities in *US News and World Report's* 1998 edition of *America's Best Colleges*.

The School of Health Sciences offers undergraduate degrees in 12 disciplines, an entry-level master's program in physical therapy, and graduate degrees in medical laboratory sciences, cell and molecular biology, physician assistant, pathologists' assistant, orthopedic physical therapy, and advanced clinical practice in physical therapy. There are approximately 80 full-time faculty members in the School of Health Sciences.

The Department of Chemistry and Physical Sciences at Quinnipiac College invites applications for a tenure track position starting Fall Semester 1998. Applicants should have a Ph.D. in Analytical Chemistry with extensive knowledge of a variety of analytical

instrumentation. Preference will be given to candidates having competency in electronics and physics.

Teaching duties will be primarily in the area of general chemistry for health science majors, as well as all college core curriculum general science and physics courses. In addition, you will teach upper level courses relevant to strengths as required by the department. A strong commitment to undergraduate teaching and ability to plan and direct appropriate research for undergraduate chemistry majors are essential. Teaching experience is required.

The salary and benefits are competitive. The appointment will be made at a level commensurate with qualifications and experience. Applications and nominations with curriculum vitae, transcripts and three letters of recommendation will be reviewed beginning on March 20, 1998, and the search will continue until the position is filled. Materials should be forwarded to: Dr. Albert Notation, Chairman, Department of Chemistry and Physical Sciences, Quinnipiac College, Hamden, CT 06518; Fax: (203) 287-5223.

*Quinnipiac College has a strong commitment to the principles and practices of diversity throughout the College community. Women, minorities and individuals with disabilities are invited and encouraged to consider this opportunity and to apply.*

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### **Post Doctoral Fellow – Molecular Pharmacology Raritan, NJ**

We have one position for a highly motivated individual to work in a new, exciting and rapidly evolving area of drug discovery using molecular biology approaches to investigate the mechanism(s) by which corticosteroids exert their anti-inflammatory efforts. Opportunities for collaboration within the company and with outside consultants are available. Publication of results is essential.

To qualify, candidates must have a Ph.D. in Biochemistry, Pharmacology, Molecular Biology or a related discipline and a strong background/experience in cell biology and cell culture techniques. Experience in nuclear receptor biology and knowledge of leukocyte biology are highly desirable. Expertise in cloning and expression, detection of mRNA by Northern blot analysis, hybridization techniques, and differential display are essential. Experience in phospholipid biochemistry and inflammatory processes would be an asset. Strong written/verbal communication skills and the ability to work in a highly interactive environment are a must. **Dept. 1888.**

### **Post Doctoral Research Scientist – Tissue Engineering and Wound Healing Skillman, NJ**

You will work with a team of 15 scientists specializing in biochemistry, cell biology, molecular biology, histopathology, veterinary science and imaging, with an emphasis on tissue engineering and wound healing biology.

To qualify, you must have a Ph.D. in the biological sciences or equivalent and knowledge of molecular biology and cell biology techniques. Experience in bone, cartilage, vascular or skin biology is preferred, as is experience related to tissue engineering and wound healing. **Dept. 1889.**

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## **Postdoctoral Fellow Biochemistry**



Isis Pharmaceuticals has a strong program in combinatorial chemistry directed toward discovery of new antibacterial agents. A postdoctoral position for a biochemist is available immediately in the drug discovery group. Research will focus on identification of novel targets and development of automated, high throughput assays designed to select inhibitors of protein/RNA interactions. The scientist will characterize interactions between inhibitors and the RNA or protein and will participate in design of targeted combinatorial libraries. The successful candidate will have completed biochemical research on the structure or function of RNA. Strong interdisciplinary skills, including experience in either bio-organic chemistry, biophysical chemistry, or molecular biology are desired.

With strong funding and excellent academic ties, Isis offers a superb environment for professional training, as well as excellent salaries and benefits. We are located in North Coastal San Diego County. For consideration, send your CV, names of three references, and cover letter to: **Isis Pharmaceuticals, Human Resources, Code 266, 2292 Faraday Ave., Carlsbad, CA 92008.** Principals only. No phone calls please. EOE.

**ISIS PHARMACEUTICALS**



### **ECOSYSTEM SCIENTIST FACULTY POSITION**

The School of Resource and Environmental Management at Simon Fraser University invites applications for a tenure-track Assistant Professor appointment in applied ecosystem science. Priority research areas include conservation biology, wildlife ecology, watershed management, terrestrial or aquatic ecosystem dynamics, local to regional effects of global change, and conservation planning. This person will teach courses in their specialty and topics such as Applied Ecology and Sustainable Environments, Environmental Modeling, or Environmental Risk Assessment.

Simon Fraser University is committed to the principle of equity in employment and offers equal opportunities to qualified applicants. *This advertisement is directed to Canadian citizens and permanent residents. Others are encouraged to apply but are not eligible for appointment until a Canadian search is completed and no appointment made.*

Applicants should refer to the full advertisement on our website (<http://www.rem.sfu.ca>) before submitting any materials to the **Director, School of Resource and Environmental Management, Simon Fraser University, Burnaby, B.C., CANADA V5A 1S6. TEL: (604)-291-4659; FAX: (604)-291-4968.** The closing date is April 10, 1998.

# Genome Sequence Centre

*British Columbia Cancer Research Centre*

**Vancouver, British Columbia, Canada**

The BC Cancer Agency (BCCA) and the British Columbia Cancer Foundation (BCCF) are establishing a Genome Sequence Centre (GSC) at the British Columbia Cancer Research Centre (BCCRC) within BCCA's research and treatment facility in Vancouver, British Columbia, Canada. Its founding Director is Dr. Michael Smith, Nobel Laureate, University Killam Professor and Peter Wall Distinguished Professor of Biotechnology, University of British Columbia.

The BCCF is providing initial funding support to establish the Centre as well as the annual operating budget. The major activity of the Centre will be genome sequencing of particular relevance to cancer research diagnosis and treatment. However, it is intended that the Centre will also have the potential to carry out other large-scale DNA sequencing projects of medical and biological importance.

Initially, the Centre will be housed in 5,000 sq. ft. of existing laboratory and office space, pending construction of a larger facility in the planned new laboratories of the BCCRC.

In the following key appointments, incumbents will report to the Director and will be co-responsible for establishing a Centre with a world-class reputation for determining DNA sequences, in the context of significant medical and biological problems, with high data quality produced in a timely and cost effective manner. A particular responsibility of the Centre will be to interact closely, and in an ongoing manner, with cancer researchers and clinicians at the BCCRC and BCCA.

Essential to these positions is a Ph.D. in genetics, molecular biology, biochemistry or related discipline. Post-doctoral experience, whilst not required, would be a significant asset. There is the possibility of academic appointments in appropriate Departments of the University of British Columbia for both Group Leaders.

## Genome Mapping & Sequencing Group Leader

Essential to your profile is at least two years' experience as a member of a large scale Genome Sequencing group, with involvement in physical working of mammalian genomes of DNA sequencing. Additional experience in cDNA or EST sequence determination would be an advantage. Strong management and interpersonal skills are required. The Group Leader will be responsible for hiring and training technical staff and for ensuring a strong commitment to the staff's career development.

## Data Analysis & Informatics Group Leader

You possess at least two years' experience in data analysis and the use of computer systems associated with large-scale DNA sequencing.

You will work closely with the Genome Mapping & Sequencing Group Leader to ensure all computer systems and programs required for mapping and sequencing are available and functioning effectively. You will also be responsible for interfacing with the computer support group of the BCCA, overseeing data analysis and management, the submission of data to the international DNA data banks, the maintenance of the GSC's website, and Informatics services.

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In accordance with Canadian immigration policy, preference will be given to Canadian citizens and permanent residents of Canada. The BCCA hires on the basis of merit and is committed to employment equity.

Letters of application should be submitted with a current curriculum vitae, the names and addresses of three references and copies of three recent publications, by April 30, 1998, to:

Dr. Michael Smith, Director, Genome Sequencing Centre, British Columbia Cancer Research Centre, 601 West 10th Avenue, Vancouver, BC V5Z 1L3, Canada; telephone: (604) 877-6152; fax: (604) 877-6150; e-mail: mkealy@bccancer.bc.ca



**BC Cancer Research Centre**



## POSITIONS OPEN

### FACULTY POSITION IN NEUROSCIENCE THE UNIVERSITY OF TEXAS-HOUSTON MEDICAL SCHOOL

The Department of Neurobiology and Anatomy and  
The W. M. Keck Center for the Neurobiology of  
Learning and Memory

The Department of Neurobiology and Anatomy, University of Texas-Houston invites applicants for a tenure-track faculty position. The candidate should have a strong research background in the field of synaptic transmission and be studying the functional role of genes and proteins involved in synaptic vesicle function, release, or trafficking. Preference will be given to applicants using genetic models for investigation, with particular emphasis on the use of transgenic and knockout approaches. Applicants must hold a Ph.D. or M.D. degree and have at least two years of postdoctoral training. The successful candidate will be expected to develop a strong independent research program and teach at the medical and graduate school levels. Exceptional resources are available and the rank of appointment is open. Applicants should submit a curriculum vitae, a brief description of research interests, and the names and addresses of three references.

This material should be submitted to: Dr. Neal Waxham, Chairman, Search Committee, Department of Neurobiology and Anatomy and W. M. Keck Center for the Neurobiology of Learning and Memory, University of Texas-Houston, P.O. Box 20708, Houston, TX 77225.

The University of Texas-Houston is an Equal Opportunity Employer/smoke-free environment. Women and minorities are encouraged to apply.

### CHAIRPERSON DEPARTMENT OF MOLECULAR AND CELLULAR BIOCHEMISTRY Loyola University Chicago

Loyola University Chicago, Stritch School of Medicine is seeking an outstanding scientist to lead its Department of Molecular and Cellular Biochemistry. We are looking for an accomplished scientific leader who has a strong research program and who is experienced in, and enthusiastic about, medical and graduate education. The Department of Molecular and Cellular Biochemistry currently has six tenured faculty members. The new Chair will have the opportunity to recruit several additional faculty members.

The successful candidate will adopt the leadership role in defining the future course and development of the department. The candidate must have a national reputation for excellence in scholarship, teaching, and research and have demonstrated expertise in guiding the independent research efforts of younger scientists. The candidate is expected to hold a Ph.D. and/or M.D. degree.

Interested candidates should send a curriculum vitae to: Dr. Katherine Knight, Chair of the Search Committee, Department of Microbiology and Immunology, Loyola University Medical Center, 2160 South First Avenue, Building 105, Maywood, IL 60153.

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

### FACULTY POSITION UNIVERSITY OF WISCONSIN-MADISON GENE REGULATION/ INTRACELLULAR SIGNALING

The Department of Comparative Biosciences, School of Veterinary Medicine invites applications for a tenure-track faculty position (ASSISTANT or ASSOCIATE PROFESSOR) in cell/molecular biology with emphasis on gene regulation/intracellular signaling. Qualifications include a Ph.D., postdoctoral experience, ability to develop and sustain an extramurally funded research program, and a commitment to excellence in teaching. Preference will be given to candidates with research interests that complement existing departmental strengths. Teaching responsibilities include participation in veterinary medical and graduate education, including participation in one of the following veterinary medical courses: cell/molecular biology, pharmacology, or comparative anatomy. To apply, send a curriculum vitae, brief statements of research interests/goals and teaching experience/philosophies, and three letters of reference to: Gordon S. Mitchell, Chair, Department of Comparative Biosciences, University of Wisconsin, 2015 Linden Drive West, Madison, WI 53706. Apply by March 30, 1998. For additional information, see website: <http://www.vetmed.wisc.edu/cbs/>. Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN



### BOSTON BIOMEDICAL RESEARCH INSTITUTE FACULTY POSITION

The Boston Biomedical Research Institute, an independent, nonprofit research institute located in the heart of Boston (see website: <http://www.bbri.harvard.edu>), invites applications for a JUNIOR or SENIOR RESEARCH FACULTY position from scientists with postdoctoral experience and significant research accomplishments in the cell biology, biochemistry, and/or molecular biology of non-muscle cell motility. Those whose interests interface the cytoskeleton and signal transduction are especially encouraged to apply. The successful candidate will complement the research of several investigators at the Institute with interests in different aspects of contractility, signal transduction, and regulation of cell growth and will establish an independent, externally funded research program. A generous start-up package is available. Applicants should submit by mail a curriculum vitae, a brief statement of research plans, and arrange to have letters from three references sent to: Dr. Lynne M. Coluccio, Chair, Search Committee, Boston Biomedical Research Institute, 20 Staniford Street, Boston, MA 02114. Screening of applications will begin on February 15, 1998, and will continue until the position is filled.

### PLANT SYSTEMATIC BIOLOGY

The Department of Biology invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level for fall 1998. Preference will be given to candidates using molecular techniques to address systematic problems at population or higher taxonomic levels in plants. Familiarity with wetland habitats (or tropical floras), though not required, will be an added advantage. The candidate is expected to teach an undergraduate course in systematics, botany, evolution, or population biology, a graduate course in the area of specialization, and to participate in the General Education curriculum. The University has a strong faculty and very active research programs in environmental areas, and doctoral programs in environmental biology and environmental sciences. The candidate is expected to contribute to the development and the strengthening of the doctoral program and to have an active research laboratory supported by extramural grants. Applications should have a Ph.D. and postdoctoral (or equivalent professional) experience. Please submit a curriculum vitae, statement of teaching and research goals, and three letters of reference to: Dr. Kamaljit Bawa, Chair of Search Committee, Department of Biology, University of Massachusetts-Boston, 100 Morrissey Boulevard, Boston, MA 02125. Deadline for receipt of applications is February 8, 1998. FAX: 617-287-6650; e-mail: [heatley@umb.edu](mailto:heatley@umb.edu). Please see our website for more information on our department, website: [www.bio.umb.edu](http://www.bio.umb.edu). University of Massachusetts-Boston is an Affirmative Action/Equal Opportunity/Title IX Employer. Women and minorities are encouraged to apply.

Washington State University invites applications and nominations for position of DEAN OF THE COLLEGE OF VETERINARY MEDICINE. The Dean serves as the Chief Executive Officer of the College and Executive Dean of Washington-Oregon-Idaho regional program in veterinary medicine. Qualifications include a D.V.M. or equivalent degree, earned Ph.D. or diplomat status in a specialty Board approved by AVMA or equivalent specialty Board, sustained record of achievement that merits appointment as tenured Professor. Candidates must have demonstrated commitment and distinguished record of excellence in research and academic veterinary medicine that has led to peer recognition at the international level. Candidates must offer evidence of effective leadership in an AVMA-accredited College of Veterinary Medicine. The position is available July 1, 1998; starting date is negotiable. Salary is competitive. Candidates should provide a letter of application, curriculum vitae, names and addresses of five references. Review of applications will begin April 15, 1998, and continue until the position is filled. For a complete job description or additional information contact: Dr. James Carlson, Chair, Search Committee, Washington State University, P.O. Box 646230, Pullman, WA 99164-6230. Telephone: 509-335-2888; FAX: 509-335-2959; e-mail: [carlsonj@wsu.edu](mailto:carlsonj@wsu.edu). Washington State University is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

Environmental Science, Tenure-track ASSISTANT PROFESSOR. The Department of Biological, Geological, and Environmental Sciences of Cleveland State University invites applications representing a broad range of environmental science, including conservation biology, ecology, physiological ecology, limnology, environmental geology, ecotoxicology, and epidemiology. We seek to fill this tenure-track position at the level of Assistant Professor. Applicants must hold a Ph.D., have postdoctoral or equivalent experience, and demonstrate the potential for excellence in teaching and in research in environmental science. The successful candidate will be expected to establish an independent, funded research program and to contribute to an existing focus on urban environments. The successful candidate also will be expected to teach undergraduate courses, as well as graduate courses in her or his area of expertise. The Department offers B.S. and M.S. degrees in biology, B.A. and B.S. degrees in geology, and a Ph.D. in regulatory biology through a joint program with the Research Institute of the Cleveland Clinic Foundation. No later than March 30, 1998, applicants must submit a curriculum vitae, a description of research plans and teaching interests, and arrange for three letters of recommendation to be sent to: Dr. James M. Willard, Chair, Environmental Science Search Committee, Department of Biological, Geological, and Environmental Sciences, Cleveland State University, 2399 Euclid Avenue, Cleveland, OH 44115-2403. For additional information that may be helpful in preparing an application, consult the Department's World Wide Web page (website: <http://www.asic.csuohio.edu/biology/>). The Search Committee may be contacted via e-mail: [ensearch@biology.csuohio.edu](mailto:ensearch@biology.csuohio.edu), or telephone (Dr. Willard, Telephone: 216-687-2435). Cleveland State University is an Affirmative Action/Equal Opportunity Employer committed to nondiscrimination. Minorities/Females/Disabled/Veterans encouraged.

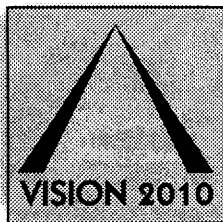
### ASSISTANT/ASSOCIATE PROFESSOR

The University of Arizona Department of Plant Sciences announces a tenure-track position (80 percent research, 20 percent teaching plant biology at graduate and undergraduate levels) beginning July 1, 1998. Associate level expected, but outstanding Junior candidates will be considered. Preference to candidates investigating plant genetic mechanisms including, but not limited to, genome structure and interactions, chromatin-level regulation of expression, gene silencing mechanisms, or environmental/developmental control of gene expression. We seek an individual who will contribute to our interactive environment and whose program will strengthen links between existing faculty. Required: Ph.D. in plant genetics or closely related field with emphasis in molecular genetics; demonstrated excellence in research; communication skills necessary for effective teaching; demonstrated potential to attract extramural funding. Send letter of interest including statement of research and teaching interests, curriculum vitae, and names of three references to: Vicki L. Chandler, Chair, Search Committee, Department of Plant Sciences, The University of Arizona, Tucson, AZ 85721. E-mail: [chandler@ag.arizona.edu](mailto:chandler@ag.arizona.edu). Application review begins March 15, 1998, and continues until position is filled. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer. Minorities/Women/Disabled/Veterans.

### FACULTY POSITION ANATOMIC PATHOLOGY/ LABORATORY MEDICINE

The Department of Pathology at Midwestern University seeks applicants for a tenure-track position at the level of ASSISTANT PROFESSOR. This is a non-clinical academic position available for individuals specializing in all areas of human pathology with an emphasis on pathogenic mechanisms of disease. Applicants must have a Ph.D. or equivalent, postdoctoral training, and a commitment to excellence in both teaching and establishment of a rigorous research program capable of attracting extramural funding. Preference will be given to individuals broadly trained in all aspects of human anatomic pathology and laboratory medicine who have previous teaching experience in professional health care curriculum. Availability of position is contingent upon budgetary approval. Send curriculum vitae, names of at least three references, and a statement specifying teaching interests and research plans to: J. N. Kasimos, D.O., Department of Pathology, Midwestern University, 555 31st Street, Downers Grove, IL 60515. Website: [www.midwestern.edu](http://www.midwestern.edu). Affirmative Action/Equal Opportunity Employer.

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■ The individual will be part of a R&D team responsible for the development and establishment of numerous new assays for the development and characterization of biological products (injectable proteins). The team is located at a new analytical facility on the North Carolina State University Centennial campus, and collaborates closely with projects in New Product Biochemistry, Pathogen Safety, and Process Research Sections. The team will interact closely with early stages of process scale up and with the Quality Assurance Development Group at the manufacturing site in Clayton, NC. The individual will work at the laboratory bench in addition to supervision of Junior Scientists. The successful candidate will be expected to contribute imaginative scientific expertise and have good oral and written communication skills to communicate research goals and results on a frequent schedule.

■ To qualify, you must have a Ph.D. in Protein Biochemistry, Analytical Chemistry or closely related field with at least 2 years of relevant job experience. You should have demonstrated abilities to supervise other scientists. A strong background in the development of HPLC, enzymatic, and/or immunological assays is required. A broad background in protein chemistry (i.e. mass spectrometry, amino acids analysis, sequence analysis, peptide mapping, disulfide assignment and glycoprotein analysis) is needed. GLP/GMP experience, analytical methods validation, experience with automation, robotics, on-line assays, a familiarity with the well-characterized biological concept and a good publication record will contribute to making a strong candidate.

■ ...and there's one more fact. If you're ready to join us, there's no better time than now. Please forward your resume (indicating response code 98-16) including salary history to: **RF/Human Resources Administrator, Bayer Corporation, Pharmaceutical Division, P.O. Box 507, Clayton, NC 27520**. No agencies or phone calls please. For more information on Bayer, search: <http://www.careermosaic.com/cm/bayer/>

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## METABOLISM AND PHARMACOKINETIC SCIENTIST

The selected individual will conduct pharmacokinetic and metabolism studies of potential and existing drugs with radiolabelled and non-labelled compounds in accordance with written procedures and departmental SOPs. Additional duties will include: designing experiments to solve problems in drug metabolism studies; developing assay procedures for profiling the parent compound and metabolites, including isolating metabolites from biological matrices for identification; conducting literature searches for techniques applicable to metabolism studies; and collaborating with other laboratories.

We require a Master's degree and 2+ years of related experience, or a Bachelor's degree and 5+ years of related experience. Knowledge of pharmacology, drug metabolism, and chemistry is a must. Ph.D. candidates are encouraged to apply. (Job Code: MPS-LM)

## MEDICAL WRITERS Arthritis, Cardiovascular and Oncology Groups

The selected individuals will prepare integrated clinical and statistical reports of clinical studies, as well as prepare and update other regulatory documents as needed. In addition, these individuals will write manuscripts for peer-reviewed journals and review reports prepared by consultants, investigators, and internal personnel.

We require an advanced degree in the biomedical field, or a Bachelor's degree and at least 2 years of experience in basic biomedical or clinical research. Experience writing for the pharmaceutical industry or a related medical discipline is a plus; although experienced writers in academic settings are encouraged to apply. Attention to detail, the ability to manage multiple, ongoing writing assignments, and a willingness to act as a key member of a clinical research team are essential. (Job Code: MW-1402)

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## POSITIONS OPEN

### CANCER CENTER AND DEPARTMENT OF LABORATORY MEDICINE AND PATHOLOGY University of Minnesota

Two tenure-track positions at the rank of **ASSISTANT PROFESSOR** are available approximately July 1, 1998. Candidates should have exceptional research accomplishments in molecular mechanisms of mouse or human tumor invasion, angiogenesis/inflammation, or cell growth/programmed cell death. Applicants must have a Ph.D. and/or M.D. and at least three years of postdoctoral experience in an area related to cancer cell biology and metastasis. Successful candidates will hold joint appointments in both the Cancer Center and Department of Laboratory Medicine and Pathology and will be expected to develop high-quality, independent, federally funded research programs that integrate into the combined research and teaching missions of both units.

Applications will be received through April 30, 1998. Applicants should send their curriculum vitae, names of three references, and a brief synopsis of research activities to:

Assistant Professor Searches  
c/o Marilyn Green  
Department of Laboratory Medicine and Pathology  
Box 609 Mayo  
420 Delaware Street S.E.  
Minneapolis, MN 55455  
or respond directly by:

E-mail: [green025@maroon.tc.umn.edu](mailto:green025@maroon.tc.umn.edu)

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

### FACULTY POSITION IN PHARMACOLOGY

The Department of Basic Pharmaceutical Sciences at the University of South Carolina, College of Pharmacy invites applications for a tenure-track position at the level of **ASSISTANT/ASSOCIATE PROFESSOR**. The position is available beginning August 16, 1998. Candidates should have a Ph.D. degree in pharmacology and at least two years of postdoctoral research experience. The appointee will be expected to develop or continue an independently funded research program that utilizes molecular and/or cellular approaches to problems in pharmacology and to participate in the teaching of professional and graduate students. Review of applications will begin on April 1, 1998. Candidates should send a curriculum vitae, a statement of research objectives, and the names and addresses of three references to: **Dr. Sondra Berger, Chair, Search Committee, University of South Carolina, College of Pharmacy, Columbia, SC 29208**. Additional information regarding the Department of Basic Pharmaceutical Sciences and College of Pharmacy is available at website: <http://pharmwww.biol.sc.edu/index.html>. The University of South Carolina is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

**NEUROBIOLOGIST**. One-year position at the **ASSISTANT PROFESSOR** level. Responsibilities include teaching an introductory course for non-majors, an upper-level neurobiology course; a third course in candidate's specialty; and supervising of student research in neurobiology. Send statement of teaching and research interest, curriculum vitae, recent reprints, list of relevant courses, and transcript. Please arrange to have three letters of recommendation sent by March 15, 1998, to: **Dr. Susan M. Smith, Department of Biological Science, Mt. Holyoke College, South Hadley, MA 01075. FAX: 413-538-2327; e-mail: [biology@mt.holyoke.edu](mailto:biology@mt.holyoke.edu)**. Mount Holyoke College is committed to fostering cultural diversity and multicultural awareness in its faculty, staff, and students and is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.

### ASSISTANT OR ASSOCIATE PROFESSORSHIPS

Wright State University School of Medicine seeking Assistant/Associate Professors in pharmacology/toxicology with research programs in neural/cardiovascular sciences. Must have Ph.D. or M.D., two years of postdoctoral training, record of research accomplishments, and ability to maintain/establish funded research program. Send curriculum vitae and names of three references to: **Chair, Search Committee, Dr. Norma Adragna, Pharmacology and Toxicology, Wright State University School of Medicine, Box 927, Dayton, OH 45401**. Review begins March 15, 1998.

## POSITIONS OPEN

### UofL Health Sciences Center

#### ASSISTANT PROFESSOR PHARMACOLOGY AND TOXICOLOGY

The Department is seeking to fill two tenure-track Assistant Professor positions. The selected candidates will have a Ph.D. in pharmacology, toxicology, or related discipline, and be expected to transfer or develop a nationally recognized and independently funded research program that incorporates molecular approaches to pharmacology and/or toxicology research. The University of Louisville Health Sciences Center has established interdisciplinary research centers of excellence in genetics and molecular medicine, oncology, molecular neurobiology, and environmental health. Applicants with research interests in one or more of these areas are particularly encouraged to apply. The primary responsibilities will be in research and research training.

New research laboratories and competitive research start-up packages are available. Applicants should send a letter outlining career research goals, curriculum vitae, and the names of three individuals who can be contacted for letters of reference to: **David W. Hein, Peter K. Knöfel, Professor and Chair, Department of Pharmacology and Toxicology, University of Louisville School of Medicine, Louisville, KY 40292**.

Applications should be received by April 1 for full consideration, but the application process will continue until the positions are filled. For further information please visit website: <http://www.louisville.edu>. The University of Louisville is an Affirmative Action/Equal Opportunity Employer. Women and minorities are particularly encouraged to apply.

#### ASSISTANT PROFESSOR MOLECULAR MECHANISMS OF BIRTH DEFECTS

Applications are invited to compete for available positions in the research track at the Assistant Professor level to investigate molecular/genetic mechanisms of birth defects. The successful candidate will join a research team active in the investigation of signal transduction, regulation of gene expression, embryotoxicity, and genetic determinants of abnormal development of the craniofacial region. Opportunities exist to collaborate with existing research programs in the University of Louisville Birth Defects Center. The candidate will be expected to develop an independent research program and successfully compete for external funding in an area related to molecular craniofacial biology. Applicants should submit curriculum vitae, statement of current research activities and future research plans, and names of three references to: **Dr. Robert Greene, Laboratory of Molecular Craniofacial Development, Department of Biological and Biophysical Sciences, University of Louisville School of Dentistry, 501 South Preston Street, Louisville, KY 40292**. The University of Louisville is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

#### CELLULAR OR MOLECULAR NEUROBIOLOGISTS

The Center for Neuroscience, University of California, Davis, seeks applications for two tenure-track **ASSISTANT PROFESSOR** positions in any area of cellular or molecular neuroscience, starting in the fall 1998 or later. A Ph.D. or M.D. is required.

The Center, housed in three research buildings and currently home to a large group of Systems/Cognitive Neuroscientists, is entering a new phase of expansion in which it expects to appoint an equivalent number of Cellular/Molecular Neuroscientists. Successful candidates will have space and facilities in the Center and primary appointments in a Department of the UC Davis School of Medicine. They will become members of the multidisciplinary Graduate Program in Neuroscience and will be expected to develop an active, funded, independent research program.

Please send a curriculum vitae, statement of research interests, and the names of at least three persons from whom references can be obtained to: **Dr. Edward G. Jones, Director, Center for Neuroscience, University of California, Davis, Davis, CA 95616**. Applications should be received by May 30th. The University of California is an Equal Opportunity Employer.

## POSITIONS OPEN

### MICROBIAL PHYSIOLOGIST ASSISTANT PROFESSOR

The Department of Biochemistry and Microbiology, Cook College, Rutgers University, invites applications for an academic year, tenure-track position at the Assistant Professor level to start September 1, 1998. We seek a Microbial Physiologist, with strength in basic research in microbial metabolism and applications in areas such as production or transformation of secondary metabolites/toxins/natural products. Teaching assignments will be in areas of applied microbiology and microbial technology through the Cook College biotechnology curriculum. Applicants should have a doctoral degree and postdoctoral experience. Send curriculum vitae, statement of research interests, and names and addresses of three references to: **Dr. Douglas Eveleigh, Chair, Search Committee, Department of Biochemistry and Microbiology, Cook College, Rutgers University, 76 Lipman Drive, New Brunswick, NJ 08901-8525**. Review of the applications will begin April 1, 1998. Rutgers University is an Affirmative Action/Equal Opportunity Employer.

#### ASSISTANT PROFESSOR OF BIOLOGY GRAND CANYON UNIVERSITY

The Department of Biology seeks broadly trained applicants for a tenure-track position. Ph.D. and a strong commitment to undergraduate teaching and advising required. Teaching duties include introductory biology, vertebrate zoology, and wildlife biology or botany. Grand Canyon University, a Southern Baptist University, is located in the Phoenix metropolitan area and draws students nationally and internationally. Salary commensurate with qualifications. Applications accepted until March 27, 1998. Starting date: August 20, 1998. Applicants should forward a curriculum vitae and three letters of recommendation to: **Robin Baker, Ph.D., Vice President for Academic Affairs, Grand Canyon University, 3300 West Camelback Road, Phoenix, AZ 85017. Telephone: 602-589-2450**. Grand Canyon University is an Equal Opportunity Employer.

#### ASSISTANT PROFESSOR BIOANALYTICAL CHEMISTRY

The Department of Chemistry at Black Hills State University invites applications for a tenure-track position starting August 1998. Candidates must have an earned doctorate, preferably in bioanalytical chemistry, with an emphasis in biophysics and nucleic acids desirable. Primary teaching assignment: analytical chemistry, physical chemistry, and general chemistry. Postdoctoral experience and a record of successful undergraduate teaching is highly desirable.

Send letter of application, curriculum vitae, summary of teaching philosophy, a research plan emphasizing undergraduate research, and three letters of recommendation to: **Dr. Pete deLannoy, Chairman Chemistry Search Committee, Box 9005, Black Hills State University, Spearfish, SD 57799**. Application deadline is March 13, 1998. An Equal Opportunity/Affirmative Action Employer.

The Section of Cardiology, Department of Internal Medicine at Yale University seeks an M.D. or M.D.-Ph.D. Investigator at the **ASSISTANT/ASSOCIATE PROFESSOR** level in the area of cardiovascular biology oriented to gene therapy. Demonstrable research experience and successful funding efforts necessary. The main responsibility of this individual will be to expand the fundamental vascular biology efforts at Yale and develop a cardiovascular gene therapy research program. Interested candidates, please send curriculum vitae and three letters of reference to: **Jeffrey Bender, M.D., Associate Chief of Cardiology, c/o Kim Eigner, Yale University, Section of Cardiovascular Medicine, P.O. Box 208013, New Haven, CT 06520-8013** by March 27, 1998. Yale is an Affirmative Action/Equal Opportunity Employer. Applications from women and members of minority groups are encouraged.

**BOTANIST. ASSISTANT PROFESSOR** of biology. Beginning fall 1998. Ph.D. and teaching experience required. Interests should include ethnobotany and conservation biology. Responsibilities: teaching introductory botany, non-majors biology, advanced courses; directing undergraduate research. Applications accepted until position is filled. Send letter of interest, résumé, statement of teaching and research interests, and contact information for three references to: **Dr. Norval Kneten, Dean, Science and Humanities, Texas Wesleyan University, 1201 Wesleyan, Fort Worth, TX 76105-1536**. Affirmative Action/Equal Opportunity Employer.



## POSTDOCTORAL FELLOWSHIPS

### The Biochemistry and Molecular Biology of Nucleic Acids

Postdoctoral fellowships are available in the Genetics and Biochemistry Branch, NIDDK, NIH. The Branch is similar to a small academic department and has excellent laboratory facilities. The intramural program of the NIH offers an outstanding research environment. The Branch is located on the main intramural campus of the NIH in Bethesda, Maryland, a 20 minute ride from Washington, D.C. Applications are invited from individuals of the highest caliber with Ph.D., M.D., or M.D., Ph.D. degrees. Physicians may participate in either the NIH Interinstitute Endocrine or the NIH Interinstitute Medical Genetics Training Programs. Current research interests of the staff with positions available include:

Biochemistry and molecular biology of homologous recombination in eukaryotes and prokaryotes (including structural studies of some of the proteins, protein domains and DNA-protein complexes involved), new methods for gene mapping and cloning (e.g., RARE) and gene targeting in mammalian cells and novel approaches to gene therapy (including the use of small molecules that promote gene targeting, such as miniRecAs) (Dan Camerini-Otero)

Mechanistic studies of homologous recombination and DNA mismatch repair focusing on proteins that interact with the Holliday junction intermediate, the role of chromatin structure in regulating recombination and structure/function studies of MutS and MutL mismatch repair proteins (Peggy Hsieh)

The role of the RNA and protein components of small nucleolar ribonucleolar protein particles (snoRNPs) is being studied to determine the functional contribution of each in rRNA processing. Current studies include examination of rRNA:snoRNA interactions, assembly of RNP particles, and protein composition of specific snoRNAs using various eukaryotic model systems with in vivo and in vitro methods (Brenda Peculis)

Interested candidates should send their curriculum vitae with list of publications, a letter stating research interests and the names and addresses of three references to the individual investigator at:

Building 10, Room 9D-20  
National Institutes of Health  
10 Center Drive MSC 1810  
Bethesda, Maryland 20892-1810  
Telephone: 301-496-2710

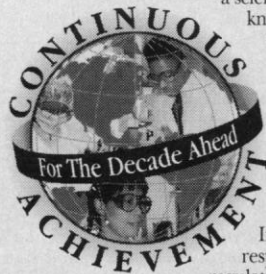
# genzyme

**Moving forward.** With new manufacturing facilities, expanding global markets, and constant scientific innovation, Genzyme has become a major, diversified healthcare products company. **Looking ahead.** Many words can describe a goal, an achievement, or even an opportunity. But only one word can describe an opportunity like this. **Genzyme.**

## DIRECTOR, METHODS VALIDATION AND PROCESS DEVELOPMENT

### Genzyme Tissue Repair

You will oversee all methods validation and process development aspects of current products for the Manufacturing, Quality and R&D departments. Requires a Ph.D. in a scientific discipline with 10 years' industry or equivalent experience, knowledge of biotechnology or pharmaceutical manufacturing techniques obtained in a GMP facility, experience in all aspects of process development, methods validation, and process control, and strong communication and staff and project management skills. Job Code: EB98



## DIRECTOR, REGULATORY AFFAIRS - SURGICAL PRODUCTS

Interfacing with all levels of the organization, you will be responsible for the implementation of international and domestic regulatory activities ranging from facility registrations to product submissions, and maintain ISO registration compliance relating to Technical Files and Design Dossiers. Requires a BS or related degree, 5 years' regulatory experience with direct FDA interaction, business acumen, managerial experience, and strong interpersonal and project management skills. RAPS certification preferred. Job Code: EB98DRA

## STAFF SCIENTIST

### Genzyme Tissue Repair

Responsibilities include culture media optimization, cell growth control issues, and assisting with Biochemical/Molecular Department issues such as gene expression profiles and molecular identity markers. Requires a Ph.D. in Cell Biology, Microbiology or related discipline plus 2-4 years' experience (industry preferred), knowledge of biostatistics, and biochemical and molecular approaches to cell biology, and strong multi-tasking, interpersonal and communication skills. Experience with mammalian tissue culture preferred. Job Code: EB98

## PROCESS DEVELOPMENT ENGINEERS

Assist in the transfer of products and processes into Genzyme's aseptic manufacturing operations. Lead a small, multi-departmental team in implementing project plans and ensuring completion within specified timelines. Requires a BS degree and 5+ years' experience in pharmaceutical plant/process design, validation and process control in an aseptic environment. Experience with lyophilization and steam sterilization is preferred. Job Code: EB-97-0223

### Framingham Location

## STAFF SCIENTIST

### Gene Therapy Analysis Group Cancer Immunotherapy

Focus on gene therapy as used in cancer immunotherapy. Working within a large team effort, will design in vivo experiments, conduct the therapy in preclinical models, and evaluate and interpret the data. Requires recent Ph.D. with solid theoretical background in cancer and extensive experience with preclinical models and extrapolation/relevance to clinical applications. Job Code: PK-98-0025

Qualified candidates should forward their resume, indicating job code, to:  
Ed Bocko, Human Resources Consultant, Genzyme Corporation, 64 Sidney Street,  
Cambridge, MA 02139. Fax: (617) 252-0883.

Genzyme uses optical scanning technology. Please use a 12 point font with minimal use of bullets, italics, underlining and bolding.

Genzyme rewards success with an excellent compensation and benefits package, including paid vacation, a 401(k) plan with a company match, extensive insurance benefits and an Employee Stock Purchase Plan. An equal opportunity employer committed to a culturally diverse workforce.

ADVANCING HEALTHCARE PRODUCTS AND SERVICES WORLDWIDE

VISIT OUR WEBSITE AT [WWW.GENZYME.COM/CAREERS](http://WWW.GENZYME.COM/CAREERS)

## POSITIONS OPEN

### RESEARCH ASSISTANT PROFESSOR ENVIRONMENTAL SCIENCE

Brown University invites applications for a Research Assistant Professorship in environmental sciences with a joint appointment in the Center for Environmental Studies and the Watson Institute for International Studies. Responsibilities include teaching two environmental courses, one with an international focus and one in environmental science, as well as maintaining an active research program focusing on global and/or ecosystem-level problems. The successful candidate is expected to have a Ph.D. in an environmental science, strong international interests and experience, and a record of scholarly accomplishments and demonstrated teaching ability. The appointment will be for three years with a possibility of renewal. Applicants should submit a curriculum vitae, statement of teaching and research interests, and have three letters of reference sent to: **Steven Hamburg, Search Committee Chair, Brown University, The Watson Institute, 130 Hope Street, Providence, RI 02912. Telephone: 401-863-2700; e-mail: steven\_hamburg@brown.edu.** All applications received by March 25, 1998, will receive full consideration. *Brown University is an Equal Opportunity/Affirmative Action Employer.*

**ANIMAL BIOLOGIST.** Full-time, tenure-track, ASSISTANT PROFESSOR opening available August 1998. Able to instruct vertebrate animal survey with research experience in whole organism behavior. Ph.D. required. Candidate will be expected to support the mission of the College. For more information contact: **Elizabeth Lynch, e-mail: elynch@loras.edu** or: **Gerald Eagleson, Telephone: 319-588-7956; e-mail: eaglegw@loras.edu.** Complete job description available at website: <http://www.loras.edu/~HR/>. Application review begins immediately with March 27th deadline. Send letter of application, curriculum vitae, graduate transcripts, and three letters of recommendation to: **Chair, Biology Search Committee, c/o Department of Human Resources, Loras College, 1450 Alta Vista, Dubuque, IA 52004-0178.** *Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.*

**ASSISTANT PROFESSOR.** Marine affairs and policy, tenure-track aquaculture management. Ph.D. in a biological science, fisheries, or related field. Experience teaching graduate and undergraduate courses required. Strong research record and continued funding record required. Extensive planning and development of aquaculture projects in Latin America, Caribbean, and Asia. Fluency in several field site languages. Duties include developing and maintaining funded research program; participating in cross-divisional research; teaching graduate and undergraduate classes. Candidates send curriculum vitae with letter outlining career goals and reference list by March 31st, 1998, to: **Dr. Sarah Keene Meltzoff, University of Miami, Rosenstiel School of Marine and Atmospheric Science, Division of Marine Affairs and Policy, 4600 Rickenbacker Causeway, Miami, FL 33149.** *An Equal Opportunity/Affirmative Action Employer.*

### IS THIS YOUR ONCE IN A LIFETIME OPPORTUNITY

Small, established Los Angeles biotech company seeks an individual with patented (or patentable), market-ready product(s) to be our **CEO and RESEARCH DIRECTOR.** We have the lab, people, and funds (but not all the money in the world). We are not looking for an employee as much as we are looking for a partner. Don't apply if you are only looking for a research job. This is a heavyweight, unique opportunity for someone who wants major equity, the chance to become rich, and to live in sunny southern California. Important: Please FAX a cover letter, including as much information as you are comfortable in sharing about your product and its potential. Include an estimate of the amount of money and time necessary to bring it to market. Additionally, please include your curriculum vitae. All replies will be held in strictest confidence. Please FAX to: **Mr. Cole, FAX: 310-657-4222.**

### ASSISTANT/ASSOCIATE PROFESSOR OF MOLECULAR MEDICINE

M.D. or Ph.D. with research interests in human genetics. Significant resources available. Send curriculum vitae and bibliography to: **Dr. Alan Tall, Department of Medicine, College of Physicians and Surgeons, Columbia University, Ph8 East, Room 101, 622 West 168th Street, New York, NY 10032.** *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN



The USDA, Agricultural Research Service, Meat Science Research Laboratory, Beltsville, Maryland, is seeking a **RESEARCH CHEMIST (biochemistry)/RESEARCH FOOD TECHNOLOGIST, GS-11/12;** salary range is \$39,270 to \$61,190. *U.S. citizenship is required.* The scientist will be responsible for conducting basic and applied research in the area of protein chemistry to determine the success of newly emerging technologies (e.g., Hydrodyne process) at enhancing the value-added capabilities and quality of meat; and for developing companion preservation and processing procedures necessary to enhance meat quality.

A degree in biochemistry, food technology, or related subject matter is required. Candidates must have professional knowledge of food and meat science; skill in scientific analytical methods, procedures, and techniques in chemistry, enzymology; and skill in developing, conducting, and publishing scientific research.

For information on the research program, contact: **Morse B. Solomon, Research Leader, Telephone: 301-504-8400.** Applicants must request a copy of vacancy announcement number ARS-D8B-130 and application packet by calling **Telephone: 301-344-8057.** Applications must be postmarked by March 30, 1998. *USDA/ARS is an Equal Opportunity Employer.*

### SENIOR TISSUE ENGINEER

Battelle, operator of the Pacific Northwest National Laboratory (PNNL) for the U.S. Department of Energy, has an immediate opening for a Senior Tissue Engineer to lead the development of a tissue-engineered research program in Richland, Washington.

Will provide technical leadership to develop and conduct research programs in tissue engineering that will lead to tangible research results that advance the scientific knowledge and state-of-the-art in engineered tissues, result in unique intellectual property, position PNNL as a recognized leader in this field. Responsibilities include understanding existing activities in the Biomaterials Science and Engineering Laboratory (BSEL) and coordinating those activities with Materials, Molecular Biosciences, and the Bioprocessing Group. Will design and implement a technology roadmap in tissue engineering that will build and enhance new and existing programs utilizing the BSEL capabilities. Will define areas in tissue engineering, which will provide a strong research program and provide the necessary technical capabilities to underpin BSEL and the Materials and Medical Systems Product Lines.

Ph.D. in tissue engineering, chemical engineering, chemistry, materials science, or materials engineering and 10 or more years of experience in materials synthesis, tissue engineering, cell tissue technologies, or related field. Must have an established publication record and experience with project management and supervisory experience. Excellent leadership and interpersonal communication skills required. Closing date for these positions is April 1, 1998.

Résumés and inquiries should be directed to:

**Battelle PNNL  
Human Resources, Attn: M. Heaton  
P.O. Box 999  
Richland, WA 99352  
E-mail: mary.heaton@pnl.gov**

For more information about Battelle, PNNL, and the Medical Technology Initiative, website: <http://www.pnl.gov/medical>.

*Battelle PNNL is an Equal Opportunity/Affirmative Action Employer and supports diversity in the workplace. Women, minorities, disabled and Vietnam-era veterans, and disabled persons are strongly encouraged to apply.*

**RESEARCH ASSOCIATE** in pulmonary pharmacology available for recent Ph.D. in pharmacology or physiology. Project related to pharmacology of purine receptors and the involvement of second messenger systems in airway smooth muscle and epithelial cells. Salary commensurate with experience. Experience in pulmonary physiology preferred. Send curriculum vitae and three letters of recommendation to: **Dr. S. Jamal Mustafa, Department of Pharmacology, East Carolina University, Greenville, NC 27858. Telephone: 919-816-2736.** *Affirmative Action/Equal Employment Opportunity. Accommodates individuals with disability. Applicants must comply with the Immigration Reform and Control Act.*

## POSITIONS OPEN

### COOPERATIVE EXTENSION SPECIALIST POSITION IN OBESITY

This will be an eleven-month appointment involving research and outreach in the Department of Nutritional Sciences. The appointee will design and conduct applied research, and develop outreach programs, in collaboration with faculty, Cooperative Extension Specialists, and Cooperative Extension Advisors statewide. These programs will be aimed at understanding obesity as a chronic condition, the promotion of metabolic fitness, the prevention of obesity, and approaches to enable improvement of the U.S. diet and exercise habits. The Specialist is expected to use a variety of existing and innovative outreach methods to effectively communicate with a diverse clientele, including policy makers, health providers, educators, nutrition and health professionals, and private industry. The appointee may work with graduate students seeking advanced degrees in nutrition or related fields. The applicant must hold a Ph.D. or equivalent degree in nutrition or a related field with experience in the area of obesity. The successful applicant must show an ability to communicate to diverse audiences through both written and spoken means. Applications should be submitted to: **Joanne Ikeda, Chair, Cooperative Extension Specialist Search Committee, 119 Morgan Hall, University of California, Berkeley, CA 94720-3104.** Applications should include a complete curriculum vitae, a statement of interests, copies of two to three publications related to current research interests, and a brief description of professional experience. Applicants should submit the names of three references who are able to evaluate their accomplishments. Application deadline: April 30, 1998. Applications submitted after the deadline will not be considered.

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

### TRANSGENIC SCIENTIST FRED HUTCHINSON CANCER RESEARCH CENTER

The Fred Hutchinson Cancer Research Center is seeking a qualified individual to assume operational responsibility for the Transgenic Mouse Facility. Responsibilities and duties will include the generation of transgenic mice by pronuclear injection, gene targeting in ES cells, and derivation of chimeric mice. Position requires working with Center faculty, staff, and employees in support of various laboratories.

Qualifications for this position include a B.A./B.S. in a science-related field and postgraduate training and demonstrated expertise in transgenic technology required. Excellent interpersonal skills and attention to detail and protocol required. Ability to work independently and as an integral part of a team.

Please send letter of application with curriculum vitae by March 23, 1998, to:

**Human Resources Office #KM-7993  
Fred Hutchinson Cancer Research Center  
1300 Valley Street  
Seattle, WA 98109**

*Fred Hutchinson Cancer Research Center is an Equal Opportunity Employer.*

**EXECUTIVE DIRECTOR** sought for Clean Air Act-authorized research institution to carry out contract/grant research program on health effects of air toxics. Duties include administration of current two- to three-million dollar annual peer-reviewed research program at universities and national research laboratories. Candidate would also be responsible for maintenance and expansion of relationships and joint research opportunities with public agencies and private sector entities, including philanthropic organizations, and interaction with executive and legislative branches of federal and state governments on environmental health research opportunities. Applicant would be expected to direct major developmental (fund raising) initiatives with private sector and philanthropic organizations. Successful applicant should have an advanced degree in science or medicine, and preferably have experience in corporate research and development or environmental affairs. Position also includes possibility of adjunct faculty status at major School of Public Health. Salary would be commensurate with experience. Only qualified applicants will be considered. Applicants should send a curriculum vitae to: **National Urban Air Toxics Research Center, P.O. Box 20286, Houston, TX 77225-0286. E-mail: rcampion@utspsh.sph.uth.tmc.edu.**



**East Stroudsburg  
University of  
Pennsylvania**

**BIOLOGICAL SCIENCES  
DEPARTMENT**

Assistant Professor full-time continuing position for the Fall 1998 semester. Responsibilities include teaching a specialty course and introductory courses. The applicant must have a Ph.D. and a strong commitment to undergraduate teaching. Teaching experience is preferred. Final determination will require an interview and include teaching or lecture demonstrations. Applicants should specify the population genetics position and submit curriculum vita, transcripts and three letters of reference by March 30, 1998 to: **Raymond G. Milewski, Search Committee Chairperson, Biological Sciences Department, East Stroudsburg University, East Stroudsburg, PA 18301.**

*ESU is an equal opportunity employer. Minorities and women are strongly encouraged to apply.*



## POSTDOCTORAL POSITIONS IN BIOCHEMISTRY

Ph.D. scientists with expertise in chemistry, biochemistry, or molecular biology are invited to apply for positions open in the laboratories listed below. Candidate descriptions for each open position are included. Detailed research program descriptions and e-mail addresses appear in our website: <http://www.biochem.mcw.edu>.

Send CV and names and addresses of 3 references to the appropriate faculty member at: **Biochemistry, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226.**

**Nancy M. Dahms, Ph.D.**— Biochemist or molecular biologist interested in studying the molecular mechanisms of lysosomal enzyme targeting and insulin-like growth factor-II regulation.

**Owen W. Griffith, Ph.D.**— Organic chemist interested in design and synthesis of novel antimetabolites and drugs. Enzymologist interested in reaction mechanism elucidation using classical and molecular approaches.

**Arthur L. Haas, Ph.D.**— Biochemist or molecular biologist interested in cloning and characterizing the enzymes involved in conjugation of ubiquitin and ubiquitin-like proteins to cell targets.

**Jung Ja P. Kim, Ph.D.**— Biochemist with interests in Structural Biology. Preference will be given to candidates with strong background in molecular biology and/or protein crystallography with experience in computation.

**Ravi Misra, Ph.D.**— Molecular biologist interested in investigating mechanisms of calcium-mediated neuronal gene expression and/or developmental gene expression.

**Henry Miziorko, Ph.D.**— Enzymologist or chemist interested in mechanistic characterization and structure/function investigations of enzymes of isoprene, sterol, and ketone body biosynthesis.

**Jennifer Morris, Ph.D.**— Molecular biologist or biochemist to define the function of zinc finger transcription factors during myeloid stem cell differentiation.



The University of Florida, College of Medicine seeks a Director for the University of Florida Shands Cancer Center. Candidates should have an M.D. or M.D./Ph.D. degree with a nationally recognized record of research achievement and administrative experience in oncology. The responsibilities of this position will include: lead the design and implement multidisciplinary research, education, and clinical programs in oncology and related disciplines; to recruit faculty and staff to enhance new and current research and clinical programs; and to expand extramural funding for center support. The Director will hold a tenure-accruing faculty position in the appropriate department of the College of Medicine. Academic rank and salary will be commensurate with experience.

Letters of application should include a curriculum vitae with a brief summary of relevant research, clinical, and administrative experience and the names of three or more references. Applications should be sent to: **Douglas J. Barrett, M.D., Search Committee Chairman, Cancer Center Director, Box 100296, University of Florida, Gainesville, FL 32610.** The application deadline will be April 15, 1998; Anticipated start date will be July 1, 1998.

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

## Postdoctoral Positions - INFLAMMATION -

**Athena Neurosciences, Inc.** is a growing biopharmaceutical company in South San Francisco committed to the discovery & development of new products to diagnose and treat diseases of the central nervous system. We currently have an excellent opportunity for two experienced researchers to study immune responses within the CNS.

### Cellular Immunologist

The position requires significant, hands-on experience in the characterization of T and B cell responses, analysis of regulatory T cell subsets, and adoptive cell transfer. (Job# SC0227-CI)

### Molecular Immunologist

The successful candidate will identify surface receptors and activation signals involved in monocytic responses to CNS antigens. Preference will be given to individuals experienced in macrophage biology or with experience in molecular strategies for receptor identification. (Job# SC0227-MI)

We offer a competitive salary & benefits package, along with the rare opportunity to join a respected industry leader. To apply, please send resume to: **Athena Neurosciences, Human Resources, (Attn: Job# \_\_\_\_\_), 800 Gateway Blvd., South San Francisco, CA 94080.**

*Equal Opportunity Employer*





## POSITIONS OPEN

### ANIMAL PHYSIOLOGIST/NEUROBIOLOGIST

Teaching duties will include an upper-level course in animal physiology or neurobiology, an introductory course in the organismal biology of plants and animals, and a special-topics course for non-majors in the candidate's area of interest. A Ph.D. is required and postdoctoral experience is preferred. Send curriculum vitae, three letters of recommendation, and copies of all transcripts to: Dr. Charles Sullivan, Animal Physiologist/Neurobiologist Search Committee, Department of Biology, Grinnell College, Grinnell, IA 50112-0806. E-mail: [sullivan@ac.grin.edu](mailto:sullivan@ac.grin.edu); FAX: 515-269-4285.

### MOLECULAR/CELLULAR BIOLOGIST

Teaching duties will include introductory courses in molecular genetics and cell biology and an upper-level course in the candidate's area of expertise. A Ph.D. is required and postdoctoral experience is preferred. Send curriculum vitae, three letters of recommendation, and copies of all transcripts to: Dr. Leslie Gregg-Jolly, Molecular/Cellular Biologist Search Committee, Department of Biology, Grinnell College, Grinnell, IA 50112-0806. E-mail: [greggjolly@ac.grin.edu](mailto:greggjolly@ac.grin.edu); FAX: 515-269-4285.

In their letters of application, candidates should address their interest in undergraduate teaching in a liberal arts environment. Excellent facilities and financial support for student-faculty research are available. To assure full consideration, applications for either position must be complete by March 13, 1998. For more information on the department and college, visit our website: <http://www.grin.edu>. Grinnell College is an Affirmative Action Employer, encourages applications from women and persons of color, and considers applications without regard to gender, race, color, creed, age, national or ethnic origin, disability, or sexual orientation.

### LECTURER IN BIOLOGY EMORY UNIVERSITY

The Department of Biology, Emory University, seeks Ph.D. applicants for a non-tenure-track position of Lecturer for the fall semester of 1998. The appointment will be made for a period of three years with the possibility of renewal for an additional three years. The primary responsibility of the position is teaching in undergraduate introductory and second-level courses as well as participating in advising students. Applicants should be particularly proficient in teaching all areas of general biology in an introductory biology sequence. It is expected that the Lecturer will contribute to the academic life of the department and the university through faculty committees and other forms of academic service. Please send a curriculum vitae, a detailed statement of your teaching philosophy and the subject areas you would be qualified to teach, and three letters of recommendation to: Lecturer Search, Department of Biology, Emory University, Atlanta, GA 30322. Evaluation of candidates will begin on March 15 and will proceed until the position is filled. Emory is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

### RESEARCH ASSOCIATE

Self-motivated Ph.D.'s and/or M.D.'s experienced in regulation of gene expression and/or tumor immunobiology are invited to apply for challenging positions with career advancement opportunities in a rapidly expanding research program focused on immunomodulatory gene therapy for cancer. The laboratories are located in a newly constructed research tower with state-of-the-art equipment to facilitate progress. Qualified candidates should submit applications, including updated curricula vitae and bibliographies, plus three letters of recommendation to: Dr. Savio L. C. Woo, Professor (gene regulation, antigen presentation, and T/NK cell activation) or Dr. Shu-Hsia Chen, Assistant Professor (tumor suppression of cellular immunity), Institute for Gene Therapy and Molecular Medicine, Mount Sinai School of Medicine, Box 1496, One Gustave L. Levy Place, New York, NY 10029-6574. We are an Equal Opportunity Employer fostering diversity in the workplace.

**RESEARCH ASSOCIATE.** Protein folding. Requires Ph.D., strong background in 3D heteronuclear NMR, NMR relaxation kinetics, H-D pulse-labeling, mass spectrometry, stopped-flow fluorescence/circular dichroism, and cloning/expression/mutagenesis of heme proteins. Minimum three years of experience in folding/unfolding of metalloproteins. Publication record essential. Contact: Dr. P. E. Wright, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037.

## POSITIONS OPEN

### HARVARD MEDICAL SCHOOL MASSACHUSETTS GENERAL HOSPITAL

#### Immunobiology Laboratory at the Massachusetts General Hospital

Molecular biology/molecular immunology. Ph.D. required. Two positions open.

Candidates must have strong Ph.D. thesis, training, and some past skills in the following areas: transcription assays, promoter assay, gene expression constructs, gene expression in eukaryotic cells, production and screening of cDNA libraries, intracellular eukaryotic protein processing and sequencing. Some postdoctoral experience also viewed favorably.

Applicants should send a curriculum vitae, cover letter, and at least two letters of recommendation to:

Director/Immunobiology Laboratory  
Massachusetts General Hospital  
East Building 149  
13th Street, CNY-3601  
Charlestown, MA 02129

### GENOME INFORMATICS

The Plant Genetic Resources Unit, USDA-ARS, has an opening at Cornell University, Ithaca, New York, for a Genome Informaticist to develop improved means of access to plant genome data. The incumbent will be responsible for envisioning, engineering, and implementing interactions among Internet and other publicly available biological data sources to enhance their information content, usefulness, and accessibility to scientists working on genetic improvement of crop plants. Particular emphasis will be placed on developing software interfaces and graphical presentations to facilitate data exploration, visualization, and expert analysis. Incumbent will provide local expertise, advice, and collaboration to scientists with bioinformatics problems such as processing and organizing their laboratory data, accessing public data, and analyzing/interpreting these data. Incumbent is expected to interact locally with other informatics components of the campus-wide Cornell Genomics Initiative, and to provide national and international leadership in improvement of plant genome databases and specialized software for application to crop enhancement. *Candidates must be U.S. citizens and have knowledge of plant molecular biology, genetics, and plant physiology, as well as skill in molecular biological and molecular genetic techniques.* A Ph.D. is desirable. Salary is \$46,254 to \$60,135. For application procedures, call: Tiffany Fisk, Telephone: 315-787-2307 or download from the Internet, website: <http://www.ars.usda.gov>. Applications must be marked ARS-X8N-8086 and postmarked by March 16, 1998. USDA-ARS is an Equal Opportunity Employer.

### PART-TIME MICROSCOPE SALES/SCIENTISTS

Manufacturer of a new, high-resolution optical 3-D microscope seeks Microscopists with discretionary time interested in supplementing income through equipment sales and application development. Ideal candidate will continue to perform research in a discipline benefiting from 3-D analysis. Compensation based on ability to develop and publish new applications for technology and to assist in sales of microscopes to other scientists.

Send résumé to:

InGen Corporation  
235 Montgomery Street  
Suite 300  
San Francisco, CA 94104

### NEUROBIOLOGIST

The Biology Department invites applications for a tenure-track faculty position to start August 17, 1998. Candidate must have Ph.D. plus postdoctoral and/or teaching experience and an active research program. Teaching responsibilities include neuroanatomy/neurophysiology lecture/labs for occupational therapy students each spring, and gross anatomy labs each fall. Opportunity to teach courses in own area of expertise is also available. Send letter of application, curriculum vitae, and names of three references by March 20, 1998, to: Dr. David Moore, Utica College of Syracuse University, Utica, NY 13502. Utica College is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

## POSITIONS OPEN

### FROSTBURG STATE UNIVERSITY LECTURER IN DEVELOPMENTAL TOXICOLOGY

Frostburg State University seeks a full-time contractual Lecturer in development toxicology to begin August 1998, pending budget approval. Salary commensurate with qualifications and experience.

Responsibilities: Contribute to the general biology program. Teach courses in areas such as genetics, evolution, developmental biology, toxicology, and scientific investigations; involve undergraduate and graduate students in research.

Minimum qualifications: Ph.D. (by fall 1998) in biology or related field. Demonstrate excellent potential in teaching and research, with a background in developmental biology, molecular biology, evolution, and toxicology.

Preferred qualifications: Experience in aquatic toxicology.

Direct position inquiries to: Dr. James Howard, Chair of Search Committee, Telephone: 301-687-4168, and employment inquiries to: Human Resources, Telephone: 301-687-4105. Send letter of interest, résumé, unofficial transcripts, and names, addresses, and telephone numbers of three professional references by March 23, 1998, to: Frostburg State University, Office of Human Resources, ATTN: Lecturer of Developmental Toxicologist (Position #98-613-SCIENCE), Frostburg, MD 21532.

Frostburg State University is an Affirmative Action/Equal Opportunity Employer. Appropriate auxiliary aids and services for qualified individuals with disability will be provided upon request. Please notify in advance.

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### CHIEF, DIVISION OF ENDOCRINOLOGY.

The University of Southern California Department of Medicine is seeking applications from individuals with an M.D. degree who can be appointed as Associate Professor/Professor and assume leadership of the Division of Endocrinology. Applicants should have a strong academic background, including a record of peer-reviewed grant support in basic or clinical research in diabetes and/or obesity. Administrative and clinical skills to lead Divisional faculty of Clinicians and Researchers is required. Outstanding investigational opportunities include interdisciplinary collaboration with basic scientists and a newly remodeled NIH-funded Clinical Research Center with emphasis on metabolic research. Submit curriculum vitae to: Chair, Endocrinology Search Committee, Department of Medicine, University of Southern California, IRD 206, 2020 Zonal Avenue, Los Angeles, CA 90033.

### EAST TENNESSEE STATE UNIVERSITY

**RESEARCH FELLOW/INSTRUCTOR** in molecular biology. Position contingent upon grant funding. Applications are solicited for the above position from candidates with a doctoral degree and expertise in the techniques as well as concepts of molecular biology. The research project involves identification and characterization of novel genes expressed during the formation and death of macrophage foam cells. Prior experience in differential display RTPCR, cDNA library construction, and site-specific mutagenesis is desirable. Applicants should send curriculum vitae and names of three references to: S. R. Panini, Ph.D., Associate Professor, Department of Biochemistry and Molecular Biology, East Tennessee State University, Box 70581, Johnson City, TN 37614-0581. East Tennessee State University is an Affirmative Action/Equal Opportunity Employer.

# DIRECTOR

## DNA TECHNOLOGY CENTER

The Rockefeller University, a biomedical research institute, seeks a Director to head our DNA Sequencing/Genotyping core services including personnel management and training for both DNA Sequencing/Genotyping; software acquisition/evaluation; daily operation and troubleshooting for instrumentation maintenance/upgrades; maintain records detailing quality control, instrument maintenance, samples analyzed, data generated, failure rate, and SOPs.

The successful candidate will participate in providing state-of-the-art technology, developing a communication interface between users and the core facilities, developing/implementing new initiatives for DNA Sequencing/Genotyping, contributing to future expansion of the center to include robotics and chip technology, and providing the annual budget, 3-year budget, and strategy plans for operation services. Ph.D. in Life Sciences required.



We offer an excellent benefits package and a competitive salary. For immediate consideration, please fax/mail resume including salary requirements to: **The Rockefeller University, 1230 York Avenue, Box 125, New York, NY 10021; FAX: (212)327-8699.** An AA/EOE.

## CLINICAL DIRECTOR

### NATIONAL HEART, LUNG, AND BLOOD INSTITUTE NATIONAL INSTITUTES OF HEALTH

The National Heart, Lung, and Blood Institute (NHLBI), NIH, is seeking applicants for the position of Clinical Director. Incumbent directs and oversees multifaceted intramural clinical research in the areas of cardiopulmonary and vascular diseases and disorders; hematologic, immunologic, and endocrine disorders; and genetic studies. Incumbent serves in a senior administrative management capacity reporting to the Director, NHLBI and the Scientific Director, NHLBI.

This position offers an exciting opportunity for making substantial contributions to the NHLBI Division of Intramural Research (DIR) program. The duties and responsibilities include: directing and overseeing clinical and translational research programs with; a) responsibility for formulating a vision for clinical investigation to include relevant preclinical work and basic research; b) planning and reassessing resource allocations for Clinical Branches; c) overseeing resource allocations, scientific review, and recruitment of personnel; d) reviewing all clinical research protocols for design, standards, and relevance to mission; e) reviewing all matters pertaining to the provision of patient care in research protocols; and f) serving as executive representative of the NHLBI clinical research program at all NIH levels.

Candidates need to have 10 or more years of experience in managing some type of clinical program. This experience must include managing a senior-level research program that is recognized nationally. Candidates must have licensure in at least one state and be Board-certified in Internal Medicine. This is a Civil Service career-conditional appointment with a salary range of \$150,000 to \$175,000 per annum. Candidates may be eligible for relocation or other bonuses. *U.S. citizenship is required.*

For additional information, contact **Kim Westervelt** at (301) 496-6477. To apply for this position, submit a curriculum vitae, bibliography, and the names, addresses, and telephone numbers of four professional references by April 6, 1998, to:

**Kim Westervelt**

**Personnel Management Branch  
National Heart, Lung, and Blood Institute  
National Institutes of Health  
31 Center Drive, MSC 2484  
Building 31, Room 5A28  
Bethesda, MD 20892-2484**

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## SYMPOSIUM



### Cell Signaling & the Cytoskeleton

September 24-27, 1998

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#### Topics

Localized Remodeling of Cytoskeletal Structures.  
Signaling Molecules that Regulate Adhesion and Motility.  
Role of the Cytoskeleton in Transducing and Integrating Transmembrane Signals.

**Keynote Speaker: Elaine Fuchs**

Alan A. Aderem*	Mark Ginsberg	W. James Nelson
Mary Beckerle	Barry Gumbiner	Thomas D. Pollard
Keith Burridge	Alan Hall	Martin Schwartz
Pamela Cowin	John Hartwig	Robert H. Singer
Julian Downward	Susan Jaken*	Masatoshi Takeichi
David Drubin	Daniel Jay	Julie A. Theriot
Günther Gerisch	Rolf Kemler	Shoichiro Tsukita

\*Organizing Committee

For further information and registration:  
Tel: 518-523-1252 • Fax: 518-523-1849  
Website: [www.cell-science.org/symposium](http://www.cell-science.org/symposium)

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### Regulatory Scientists

Eli Lilly and Company has openings for Regulatory Scientists to work in the North American Regulatory Affairs component of Lilly Research Laboratories located in Indianapolis, Indiana. These positions report to a Director. The role of the scientist is to provide regulatory guidance and support for teams developing new compounds and to serve as the liaison between Lilly and the FDA.

Applicants must have a PharmD, PhD or MD, with experience in cardiovascular diseases, oncology, or nervous system disorders. Candidates should also have at least 5 years regulatory or drug development experience.

**F**or prompt consideration, please forward your curriculum vitae, the names of references, and cover letter to: **Eli Lilly and Company, US Recruiting and Staffing, ADSCMRG03, Lilly Corporate Center, Indianapolis, IN 46285.**

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## POSITIONS OPEN

The University of California, San Francisco, Departments of Surgery and Physiology are seeking a Senior Ph.D. Scientist with expertise in gastrointestinal physiology. This tenured position will be filled at the **PROFESSOR** level. A strong background in signaling by neuropeptides and proteases and their receptors, and in inflammatory mechanisms is required. Expertise in using knockout animals to investigate gastrointestinal function is required. Experience in teaching integrative physiology to medical students is required. The individual should have an international reputation and an excellent record of extramural funding.

Send curriculum vitae to: **Theodore R. Schrock, M.D., Box 0104, 513 Parnassus Avenue, San Francisco, CA 94143-0104.** Position will be open for a period of one month from the time this advertisement appears. *The University of California, San Francisco is an Equal Opportunity/Affirmative Action Employer. The University undertakes Affirmative Action to assure Equal Employment opportunities for underutilized minorities and women, for persons with disability, and for Vietnam-era veterans and special disabled veterans.*

## UNIVERSITY OF PENNSYLVANIA

**POSTDOCTORAL POSITIONS** are available immediately to study the signaling activity of the Notch receptor and to perform genetic modifier screens for factors interacting with the Alzheimer's disease-associated Presenilin protein in *Drosophila*. Applicants must possess a Ph.D. or M.D. degree and experience in molecular biology, protein chemistry, cell biology, or genetic techniques. Please send curriculum vitae, description of research interests, and the names and addresses of three references to: **Mark Fortini, Ph.D., Department of Genetics, University of Pennsylvania School of Medicine, 415 Curie Boulevard, Philadelphia, PA 19104.** FAX: 215-573-9411; e-mail: fortini@mail.med.upenn.edu.

*Affirmative Action/Equal Opportunity Employer.*

## STAFF RESEARCH ASSOCIATE IV

A full-time position in gene targeting facility. Must have proven ability to perform transgenic or ES cell injections with good success. Career position with salary range: \$36,000 to \$54,900.

Send résumé with three references to: **University of California, Berkeley, Human Resources—Employment Unit, Job# 02-308-30, 2200 University Avenue, Room 7G, Berkeley, CA 94720.**

Position open until filled; review of applicants will begin two weeks after ad is published.

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

## POSTDOCTORAL FELLOWSHIP MOLECULAR BIOLOGY

The University of Colorado invites applications for NIH-supported Postdoctoral Fellowships in molecular biology. Fellow will work on neuroimmunologic aspects of multiple sclerosis. Applicants must be U.S. citizens or hold a permanent resident alien card. Send curriculum vitae and three references to: **Dr. Donald H. Gilden, Professor and Chairman, Department of Neurology, Box B182, 4200 East Ninth Avenue, Denver, CO 80262.**

*University of Colorado Health Science Center is committed to Equal Opportunity and Affirmative Action.*

**POSTDOCTORAL RESEARCH ASSOCIATE** position available to study polymorphisms in human quinone reductases, protein structure-function relationships, protein subunit interactions, and posttranslational modifications of wild type and mutant proteins. Applicants must have experience in protein biochemistry and in cell and molecular biology. Submit curriculum vitae and contact information for three references to: **Dr. David Ross, School of Pharmacy, C-238, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262.** E-mail: davidross@uchsc.edu. *The University of Colorado Health Science Center is committed to Equal Opportunity and Affirmative Action.*

**RESEARCH ASSOCIATE/INSTRUCTOR.** Positions are immediately available to do research in the field of reproductive immunology and molecular biology of sperm-egg interaction. Ph.D. degree with experience/interest in reproductive biology required. Send curriculum vitae to: **Dr. Rajesh K. Naz, Professor and Director, Division of Research, Department of Obstetrics and Gynecology, Medical College of Ohio, 3120 Glendale Avenue, Toledo, OH 43614-5809.** Telephone: 419-383-3502; FAX: 419-383-4473.

## POSITIONS OPEN

### POSTDOCTORAL FELLOWSHIP YALE UNIVERSITY SCHOOL OF MEDICINE

Applications are invited for Postdoctoral position in the Department of Medicine at Yale University School of Medicine. Outstanding candidates with a Ph.D. or M.D. interested in studying the molecular responses to oxidative stress, in particular signal transduction pathways regulating gene transcription of stress response genes and apoptosis, are encouraged to apply. Experience in molecular biology and cell biology is essential. Experience in differential display, library screening, SAGE analysis, or two hybrid system is highly desirable. Ongoing projects in the laboratory focus on molecular regulation and function of stress response genes, lung injury and inflammation, biology of carbon monoxide, and apoptosis. Please respond with curriculum vitae and three letters of recommendation to:

**Augustine M. K. Choi, M.D.**

**Associate Professor of Medicine**

**Director of Research**

**Section of Pulmonary and Critical Care Medicine**

**Yale University School of Medicine**

**333 Cedar Street**

**105 LCI**

**New Haven, CT 06520-8057**

**Telephone: 203-785-3627**

**FAX: 203-785-3826**

*Yale University School of Medicine is an Equal Opportunity/Affirmative Action Employer.*

An NIH-funded **POSTDOCTORAL POSITION** is available (starting July 1998) to study signaling in human placenta. The object of the research is to understand the nature of the molecular mechanisms by which ethanol alters insulin signaling. The candidate should have a Ph.D. in biochemistry, cell biology, or a related discipline. Experience in transfection of human cells, protein-protein interactions, and enzymatic assays are strongly preferred. Send a cover letter describing your research interests, and a curriculum vitae, including three references, to: **Dr. Stanley Fisher, M.D. and Dr. Charles Spielholz, Ph.D., Department of Pediatrics, State University of New York, Health Science Center, 450 Clarkson Avenue, Box 49, Brooklyn, NY 11203.**

### POSTDOCTORAL POSITION IN VASCULAR BIOLOGY HARVARD MEDICAL SCHOOL

Available July 1, 1998, to study the transcriptional regulation of endothelial cell-specific genes. Send curriculum vitae and names of three references to: **Dr. William Aird, Molecular Medicine RW-663, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Boston, MA 02215.** FAX: 617-667-2913; e-mail: waird@bidmc.harvard.edu. *Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** available to study molecular mechanisms of cholesterol homeostasis, focusing on intracellular cholesterol transport and cloning and characterization of the human NPC2 gene. M.D., Ph.D., or equivalent and a background in molecular and cellular biology required. Send curriculum vitae and names of three references to: **Dr. Daniel Ory, Center for Cardiovascular Research, Washington University School of Medicine, Box 8086, 660 South Euclid Avenue, St. Louis, MO 63110.** FAX: 314-362-0186; e-mail: dory@imgate.wustl.edu.

**POSTDOCTORAL RESEARCH FELLOW** wanted to study role of Ca<sup>2+</sup> signaling in cardiac arrhythmias. Should have experience in electrophysiology, Ca<sup>2+</sup> imaging, or molecular biology. *U.S. citizens or permanent residents only.* Rich research environment with long-standing commitment to the study of cardiac arrhythmias. Send curriculum vitae and three references to: **Mark Anderson, M.D., Ph.D., Vanderbilt Cardiology, 315 MRB II, Nashville, TN 37232-6300.** Telephone: 615-936-1720; FAX: 615-936-1872. *An Equal Opportunity/Affirmative Action Employer.*

## SCIENTIST

Position available immediately to study hematopoietic stem cell preservation, expansion, and hematopoiesis. Experience in advanced cell culture and stem cell assays preferred. Send curriculum vitae and names of three references to: **Cytomatrix, 100 Inman Street, Suite 104, Cambridge, MA 02139.** FAX: 617-499-0040; e-mail: cytomat@msn.com.

## POSITIONS OPEN

### POSTDOCTORAL POSITION IN RESPIRATORY VIRUSES SECTION

National Institutes of Health. Position will be available in the Respiratory Viruses Section of the Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases. The research activity involves (1) the development of live attenuated parainfluenza virus vaccine candidates and their characterization in rodents, in nonhuman primates, and in humans; (2) the use of new "rescue" systems for these viruses to examine basic questions of viral genetics, molecular virology, viral pathogenesis, and the molecular basis of attenuation; (3) production of new candidate vaccines using site-directed mutagenesis to introduce desired attenuating mutations into viral genomes; and (4) the evaluation of the immunologic determinants of resistance to infection and illness caused by these parainfluenza viruses. This full-time research position offers a unique opportunity to work on investigations that range from basic molecular biology to applied vaccinology, and it provides excellent laboratory-based experiences for M.D.'s at all levels of training who plan a career in research in infectious diseases as well as for Postdoctoral scientists within seven years of receiving their Ph.D. degree. This position involves a collaborative research project between **Dr. Brian Murphy** and **Dr. Peter Collins**. Salary will be commensurate with experience.

Qualified and interested candidates should send curriculum vitae, bibliography, and three (3) letters of reference to:

**Dr. Brian Murphy**

**Head, Respiratory Viruses Section, NIAID, NIH**

**7 Center Drive MSC 0720**

**Building 7, Room 100**

**Bethesda, MD 20892-0720**

**Telephone: 301-496-4205**

**FAX: 301-496-8312**

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### POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE

Southern Research Institute has an immediate opening for a Ph.D. with experience in molecular and cellular biology to conduct independent basic research in the area of breast cancer molecular tumor biology. Research will be focused on exploring the mechanisms underlying the acquisition of hormone independence, antiestrogen resistance, and a metastatic phenotype. Excellent oral and written communication skills required. Experience in growth factors, signal transduction, steroid receptors, or angiogenesis preferred. Salary \$28,000 to \$45,000 depending on background and experience. Contact: **Dr. Francis G. Kern, Ph.D.,** or send résumé to: **Human Resources, Southern Research Institute, Department 308, P.O. Box 55305, Birmingham, AL 35255.** FAX: 205-581-2200; e-mail: s.r.brown@sri.org.

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### POSTDOCTORAL/RESEARCH ASSOCIATE POSITION Muscle Physiology/Animal Locomotion at Penn

Positions for highly motivated and organized individuals. We study molecular design of muscle for different motor functions (see: *PNAS* 15:8095-8100, 1996; *Science* 263:370-372, 1994). We use muscle fiber mechanics, skinned fiber ATP utilization, intracellular Ca<sup>2+</sup> transients, animal biomechanics, and musculoskeletal modeling. Skills in computers, information management, and electronics are helpful. The University of Pennsylvania houses the Pennsylvania Muscle Institute, with many individuals working on cellular/biophysical aspects of muscle contraction. Please send curriculum vitae to: **Dr. Larry Rome, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104 USA.** FAX: 215-898-8780; e-mail: lrome@mail.sas.upenn.edu.

A limited number of 18-month, nonrenewable **POSTDOCTORAL FELLOWSHIPS** are available in 1998 in marine sciences, aquaculture, biomedical marine research, ocean engineering, and environmental analysis and monitoring. Applicants must be willing to fulfill a minimum two- to three-week graduate or undergraduate teaching requirement. Application deadline, 3 April 1998. Stipends, \$25,000 annually, modest supply and travel budget, eligible for group health coverage. Specify area of interest with request for application package from: **The Johnson Marine Education Center, Harbor Branch Oceanographic Institution, Inc., 5600 US 1 North, Ft. Pierce, FL 34946.** *Equal Employment Opportunity/Affirmative Action Provider.*



## Post-Doctoral Positions

Post-Doctoral positions in Developmental Neuroscience available immediately. Project 1) Focuses on identifying glycoconjugates involved in cell-cell interactions during cerebellar development, and includes the delivery of glycosyltransferases to the developing cerebellum using gene therapy vectors, both in vivo and in vitro (Dr. Frances Smith). 2) Involves studying the development of the ventromedial nucleus of the hypothalamus and focuses on molecular mechanisms underlying the formation of this subcortical structure, including cell migration, and death and differentiation. Factors to be studied include select neurotransmitters, gonadal steroids, and transcription factors using in vitro and in vivo models (Dr. Stuart Tobet). 3) Involves studying the development of the olfactory system and focuses on the molecular mechanisms underlying the patterning of appropriate olfactory projections to the olfactory bulb, accessory olfactory bulb, and to extrabulbar sites in the preoptic area and hypothalamus which serve as guides for cell migration from the peripheral olfactory system into the CNS (Dr. Gerald Schwarting). 4) Involves studying the development of the retina and focuses on the role of retinoic acid in pattern formation (Dr. Ursula Drage). For all positions, experience with molecular techniques is preferred. Interested candidates should send curriculum vitae, a short description of research interests and names of three professional references to the above specific researcher at The Shriver Center, 200 Trapelo Road, Waltham, MA 02154. (Additional information is available on our web site at <http://www.shriver.org>). The Shriver Center is an Affirmative Action/ Equal Opportunity employer.



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Chiragene, Inc. located in Warren, New Jersey, a subsidiary of one of the fastest growing U.S. pharmaceutical and specialty chemical companies is seeking an experienced and self-motivated candidate to support its Biocatalysis Group by:

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- *Assembling and interpreting experimental data, and producing written reports of research results.*
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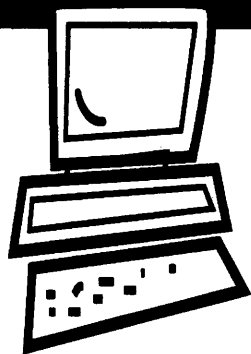
Candidates should possess M.S. in Biochemistry/Enzymology, or M.S. in related field with equivalent experience in Biocatalysis Process Research; industrial experience preferred. The ideal applicant should also possess strong working knowledge of enzyme kinetics and elucidation of reaction mechanisms, knowledge of organic reaction mechanisms and stereochemistry, with experience in asymmetric transformations using biocatalysts, practical experience with GC and HPLC, familiarity with chiral assays, good problem solving skills, ability to work with minimum supervision and good communication and interpersonal skills.

Please send detailed cover letter, resume and salary requirements to:  
**Dianne Mills, Dept. ASB, CAMBREX CORPORATION,**  
**One Meadowlands Plaza, East Rutherford, NJ 07073**  
**FAX: 201-804-9851**

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## Ion Channel Biology

DEVELOPING BIOASSAY TECHNOLOGIES FOR DRUG DISCOVERY

Aurora Biosciences Corporation is a leader in the application of cell-based fluorescence technologies and automation for drug discovery. We are currently recruiting talented, motivated scientists to join our growing program in Cell Biology for ion channel functional analysis and screen development. These positions contribute to both an expanding internal research program as well as growing interest from our external corporate partners and offer individuals a unique opportunity to participate in growth at an early stage.

### SCIENTIST

This position will enhance Aurora's expertise related to the discovery of novel small molecule therapeutic candidates. The position requires significant experience in the application of both fluorescence and electrophysiological techniques to the study of ion channels. Unique approaches in these areas with forward thinking regarding new technologies are expected. The candidate should have a Ph.D. and 2-4 years' post-doctoral experience.

### SR. SCIENTIST/SCIENTIST

This key position will provide expertise in molecular biological and expression technologies for ion channels and related proteins. Proven success in the cloning and expression of functional channels in mammalian cells required. Experience in biophysical analysis of channels preferred. Must have a proven ability to work independently. Supervisory and industrial experience a plus. The candidate should have a Ph.D. and 4+ years' post-doctoral experience.

Aurora offers competitive salary, benefits, and equity participation including an ISO and Stock Purchase Program. For consideration, please send your resume and cover letter, referencing position, to: Human Resources, Aurora Biosciences Corporation, 11010 Torreyana Rd., San Diego, CA 92121;

Fax: (619) 404-6720; E-mail: [Kellyj@aurorabio.com](mailto:Kellyj@aurorabio.com) For more information on Aurora, please refer to <http://www.aurorabio.com>  
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**Aurora**  
Biosciences Corporation

## POSITIONS OPEN

**POSTDOCTORAL POSITION.** Molecular biology: Ph.D. in biochemistry, pharmacology, or related field required. Hands-on experience required in techniques of protein chemistry and modern molecular biology, including PCR. Send résumé to: Professor R. J. Bergeron, Department of Medicinal Chemistry, P.O. Box 100485, Gainesville, FL 32610-0485. FAX: 352-392-8406. No phone calls please.

### POSTDOCTORAL FELLOWSHIP IN NEUROIMAGING YALE UNIVERSITY School of Medicine

Yale University Postdoctoral Fellowships are currently available within an NINDS-funded neuroimaging sciences training program. Applicants may have M.D. or Ph.D. degree with relevant training experience (e.g., M.D. with neurology or psychiatry residency; Ph.D. in neuroscience, computer science, biomedical engineering, or radiochemistry). The program provides rigorous training in methods and research applications of nuclear magnetic resonance (fMRI and MRS) and radiotracer (PET and SPECT) techniques. Individual mentors derive from faculty in six collaborating departments. In addition to an individual research project, Fellows are encouraged to collaborate with other faculty in multimodality imaging studies. Applicants must be U.S. citizens or permanent resident aliens. Send curriculum vitae to: Robert B. Innis, M.D., Ph.D., Director, Neuroimaging Sciences Training Program, Yale University and VAMC/116A2, 950 Campbell Avenue, West Haven, CT 06516. FAX: 203-937-3897. Equal Opportunity Employer.

### POSTDOCTORAL POSITIONS IN IMMUNOLOGY AND AUTOIMMUNITY HARVARD MEDICAL SCHOOL

Postdoctoral positions are available for the study of the immunology of autoimmune diseases in the laboratories of David Hafler, Samia Khoury, Vijay Kuchroo, and Howard Weiner. Areas of faculty interest include T-cell biology, cytokine regulation, mucosal immunology, human immunology, transgenic models, models of autoimmunity (EAE, arthritis, diabetes), and regulatory cells. Send curriculum vitae, two recent reprints, and names of three references to: Ms. Jennifer Molina, Brigham and Women's Hospital, 77 Avenue Louis Pasteur, Boston, MA 02115. E-mail: molina@cnd.bwh.harvard.edu.

**POSTDOCTORAL POSITION** available immediately to study the specificity, mechanism, and inhibition of sulfotransferases relevant to chemical carcinogenesis. Candidates must possess a Ph.D. degree with experience in enzyme purification and characterization, site-directed mutagenesis, and efficient expression of recombinant enzymes. Women and minorities are encouraged to apply. Send a current curriculum vitae and names, addresses, and telephone numbers of references to: Dr. Michael W. Duffel, Division of Medicinal and Natural Products Chemistry, College of Pharmacy, University of Iowa, Iowa City, IA 52242. E-mail: michael-duffel@uiowa.edu. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

**A POSTDOCTORAL POSITION** is available immediately to participate in funded studies on the molecular mechanism of retinal phototransduction. Applicants should have a Ph.D. and a strong background in molecular biology and biochemistry. Please send a curriculum vitae and three references to: Akio Yamazaki, Ph.D., Department of Ophthalmology, Kresge Eye Institute of Wayne State University, 4717 St. Antoine, Detroit, MI 48201. E-mail: akio\_yamazaki@med.wayne.edu. Wayne State University is an Equal Opportunity/Affirmative Action Employer. Wayne State University—people working together to provide quality service. All buildings, structures, and vehicles at WSU are smoke-free.

**POSTDOCTORAL POSITION** available immediately to study changes in dopamine and serotonin transporter, and 5-HT<sub>3</sub> receptor function following chronic cocaine administration. Experience conducting receptor and transporter binding assays is required. Send curriculum vitae, a brief statement of research experience, and the names of three references to: George R. King, Ph.D., Box 3870, Department of Psychiatry, Duke University Medical Center, Durham, NC 27710. E-mail: george@psych.duke.edu.

## POSITIONS OPEN



### BAYLOR COLLEGE OF MEDICINE

#### POSTDOCTORAL RESEARCH TRAINING Cell and Molecular Biology of Aging

Positions are available for Postdoctoral Trainees in cell and molecular biology of aging at Baylor College of Medicine. This interdisciplinary program offers trainee appointments in laboratories of Drs. Julius Allen, Stanley Appel, Gretchen Darlington, Ronald Davis, Stephen Elledge, Wade Harper, Peter Hornsby, Victoria Lundblad, Bert O'Malley, Gregory May, Estela Medrano, Olivia Pereira-Smith, Joanne Richards, Shelley Sazer, Robert Schwartz, James Smith, and George Taffet. Research emphasis is on the regulation of gene transcription and expression in normal and aged cells; the role of calcium in cell proliferation; regulation of the cell cycle; rodent models relevant to aging; and the study of genes involved in the genetic program of mortality and alterations in DNA synthesis that occur in aging cells. The faculty mentors are highly interactive and the trainees benefit from the exciting research environment within the Texas Medical Center. Applicants must be citizens or permanent residents of the United States. Send a curriculum vitae and three reference letters to:

Dr. Gretchen Darlington  
Huffington Center on Aging  
Room M-320  
Baylor College of Medicine  
Houston, TX 77030

Baylor College of Medicine is an Affirmative Action/Equal Opportunity/Equal Access Employer.

**POSTDOCTORAL POSITIONS** available summer-fall 1998 to investigate cellular and molecular aspects of polarity in isolated epithelial cells. One position is appropriate for a trainee experienced in cell/molecular biology and the other one for a trainee experienced in membrane transport/electrophysiology (including single-channel studies). Competitive salaries and fringe benefits will be offered. Send curriculum vitae, names and addresses of three referees, and a brief description of research interests to: Dr. Luis Reuss, Chairman, Department of Physiology and Biophysics, University of Texas Medical Branch, Galveston, TX 77551-0641. FAX: 409-772-3381; e-mail: lreuss@utmb.edu. University of Texas Medical Branch is a Minorities/Females/Disabled/Veterans/Affirmative Action Employer.

**A POSTDOCTORAL POSITION** in viral immunology is available for recent Ph.D. or M.D. to study the impact of antiretroviral drug therapy on the development and maturation of the human immunodeficiency virus (HIV) specific cellular immune response. Ongoing research projects investigate HIV and herpes virus-specific CTL responses in HIV infection, NK cell responses, primate models of SIV pathogenesis, and pediatric HIV infection. Please send curriculum vitae and the names of two or three references to: Dr. Douglas F. Nixon, The Aaron Diamond AIDS Research Center, The Rockefeller University, 455 First Avenue, New York, NY 10016 USA. E-mail: dnixon@adarc.org; FAX: 212-725-1126.

**POSTDOCTORAL POSITIONS** are available to study transcriptional and posttranscriptional regulation of gene expression in human and rodent hepatocytes. NIH-funded projects focus on cyclic nucleotide regulation of plasminogen activator inhibitor mRNA degradation, and on TGF $\beta$  regulation of inhibitor gene transcription. Molecular biology experience is required. Send curriculum vitae, statement of research interests, and names of three references to: Dr. Thomas Gelehrter, Department of Human Genetics, Box 0618, University of Michigan Medical School, Ann Arbor, MI 48109-0618. FAX: 313-763-5831; e-mail: tdgum@umich.edu. Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** available immediately for a positional cloning project in the Center for Human Genetics (Boston University School of Medicine) directed jointly by Dr. Chris Amemiya (website: <http://med-humgen14.bu.edu>) and Dr. Temple Smith (website: <http://eng.bu.edu/BME/faculty>). The applicant is expected to address both bioinformatics and molecular cloning aspects of the project. Contact: Dr. Amemiya, e-mail: camemiya@bu.edu. Must be U.S. citizen; women and minorities are urged to apply.

## POSITIONS OPEN

NIH-funded **POSTDOCTORAL POSITION** available to study the interaction of the Lyme disease agent *Borrelia burgdorferi* with mammalian integrins. Ph.D., M.D.-Ph.D., or D.V.M.-Ph.D. required; must be U.S. citizen or permanent resident. Send curriculum vitae and summary of research experience, and have three reference letters sent to: Jenifer Coburn, Ph.D., Division of Rheumatology, Tufts-New England Medical Center, Box 406, 750 Washington Street, Boston, MA 02111. Equal Opportunity Employer.

**POSTDOCTORAL POSITION** in cancer biology is available immediately to study new chemotherapeutic agents for the treatment of prostate cancer. We are carrying out preclinical development of a series of new agents that target members of the signaling cascade and cell cycle regulators. The candidate will be involved in mechanistic studies as well as in preclinical testing. A strong background in cell biology, pharmacology, and/or toxicology is required. Experience in animal models, tumor xenografts, and spheroid technology is highly desirable. Salary is commensurate with experience, and an excellent benefits package is offered. Research is supported CaPCure and will be conducted in the laboratory of Neal Rosen, M.D., Ph.D. Submit a letter of interest, curriculum vitae, and the names of three references to: Howard Scher, M.D., Chief, Genitourinary Oncology Service, Department of Medicine, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. MSKCC is an Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL RESEARCHER

A Postdoctoral Researcher position in Dr. Theo Kirkland's lab at Veterans Medical Research Foundation is available immediately. The goal of the project is to clone and express proteins of *Coccidioides immitis* and test these proteins as vaccines in mice (*Infect. Immun.* 66:424, 1998). A background in molecular biology and an interest in pathogenic fungi are required. The position is available now and funding is available for two years. Send curriculum vitae and three names of references to: Dr. Theo Kirkland, Division of Infectious Disease, Associate Professor of Pathology and Medicine, University of California, San Diego School of Medicine, VA Medical Center 111F, 3350 La Jolla Village Drive, San Diego, CA 92161. E-mail: tkirkland@ucsd.edu; FAX: 619-552-4398. Affirmative Action/Equal Opportunity Employer.

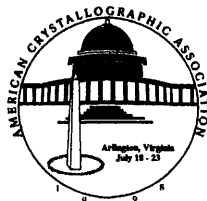
### POSTDOCTORAL POSITIONS

Postdoctoral positions available immediately. Investigation of cytoplasmic signaling during colon carcinogenesis and regulation of cytokine receptor gene transcription during hepatic fibrogenesis. Models use hepatic mesenchymal cells (stellate cells) (*JBC* 268:25132; 270:3642; 271:25994) or intestinal cells. Major molecular biology experience required. U.S. citizenship or permanent residency required. Mail/FAX curriculum vitae and the names of three references to: Dr. Bernard Davis, Department of Medicine, University of Chicago, MC4076, 5841 South Maryland Avenue, Chicago, IL 60637. FAX: 773-834-1288. Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** in signal transduction that regulates gene family of cloned Na/H exchange proteins in epithelial cells. Emphasis on asymmetric signaling in epithelia. This position requires a Ph.D. and/or M.D. and expertise in molecular biology and protein biochemistry. Please send a curriculum vitae and names of three references to: Mark Donowitz, M.D., Johns Hopkins University School of Medicine, Division of Gastroenterology, Ross 925, 720 Rutland Avenue, Baltimore, MD 21205-2195. E-mail: mdonowit@welchlink.welch.jhu.edu.

**POSTDOCTORAL POSITION** immediately available to study brain microdialysis as component of pharmacokinetic/pharmacodynamic research. Strong background in drug metabolism, neuropharmacology, and bioanalysis with experience of *in vivo* experimentation required. The applicant should possess a Ph.D. in pharmaceutical sciences, neuropharmacology, or related field. Send curriculum vitae, letter of interest, list of references, and salary history to: Dr. Stephen Curry, Astra Arcus USA, Inc., P.O. Box 20890, Rochester, NY 14602. Equal Opportunity Employer.

## MEETING



**48th Annual Meeting  
American  
Crystallographic  
Association  
July 18-23, 1998  
Arlington, Virginia**

### Scientific Program

High Pressure Compounds	Non-Oxide Glasses
Crystal Growth	Surfaces, Interfaces and Films
Computational Methods	Membrane Proteins
Synchrotron Radiation	Hot New Structures
Microcrystal Diffraction	Structure-Based Drug Design
Colloids & Gels	CCD Detectors
Electronic Materials	Computational Methods
Fiber Diffraction	Problem Structures
Direct Methods Phasing of Macromolecules	
Emerging Tools for Small Molecule Crystallography	
New Directions in Neutron Scattering Instrumentation	
Access to Crystallographic Databases and the Internet	
Scattering Methods with Diffraction and NMR	

### Workshops

Modelling Disordered Materials  
Solution and Refinement of Atomic & Near-Atomic Resolution Data  
Data Handling for Small Angle Scattering

### Abstract Deadline March 6

Electronic Submission of Abstracts Available On-line  
Instructions and Registration Information at  
<http://www.hwi.buffalo.edu/aca/>

## ANNOUNCEMENT



Invitation to Register for Meeting  
and Call for Poster Abstracts

### The Glutamate Cascade: Common Pathways of Central Nervous Disease States

May 3-5, 1998

Masur Auditorium, Building 10  
National Institutes of Health  
Bethesda, Maryland

Glutamate and Receptors, Addiction, Stroke, Epilepsy,  
Pain, Neurodegenerative and Psychiatric Disorders

Gary J. Bennett  
Dennis W. Choi  
J. Timothy Greenamyre  
Stephen E. Heinemann  
Paula L. Hoffman  
Frances E. Jensen  
Stuart A. Lipton  
Mitchell B. Max  
Tracy K. McIntosh

John H. Morrison  
Gavril Pasternak  
Piotr Popik  
Luigi Pulvirenti  
Michael A. Rogawski  
Phil Skolnick  
Marina Wolf  
Walter Zieglgänsberger  
Stephen R. Zukin

Barbara H. Herman, Chair of Meeting, NIDA, NIH

For Registration (Deadline: April 3, 1998) and Other  
Information, Contact:

Robyn Bowie Semsler  
(301) 468-6004, ext. 431  
[rsemsler@md.capeconcorp.com](mailto:rsemsler@md.capeconcorp.com)  
Web Site: [www.nida.nih.gov/events.html](http://www.nida.nih.gov/events.html)

Abstract deadline extended to March 20, 1998,  
or first 100 received

# CAREERS IN BIOTECHNOLOGY & PHARMACEUTICALS

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Space Reservation Deadline: 24 February 1998

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**JAPAN:** Mashy Yoshikawa  
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Fax: (+81) 3 3235-5852

**EUROPE:** Debbie Cummings  
Tel: +44 (0) 1223 302067  
Fax: +44 (0) 1223 576208  
E-mail: [european\\_ads@science-int.co.uk](mailto:european_ads@science-int.co.uk)

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## POSITIONS OPEN

### POSTDOCTORAL FELLOW ANTISOCIAL DRUG DEPENDENCE: GENETICS AND TREATMENT

Studies of the behavioral genetics of clinical psychiatric disorders require interdisciplinary teams of Molecular Geneticists, Behavioral Geneticists, and Clinical Researchers. The Institute for Behavioral Genetics, the Addiction Research and Treatment Service, and the Department of Molecular, Cellular, and Developmental Biology of the University of Colorado (Boulder and Denver campuses) are collaborating in twin and adoption studies, and QTL sib analyses of clinical populations aimed at defining genetic mechanisms and gene loci contributing to the clinical conditions of conduct disorder, antisocial personality disorder, and substance dependence. Positions are open for Postdoctoral Fellows in psychiatry, psychology, behavioral genetics, and molecular genetics. Senior faculty include T. J. Crowley (psychiatry); J. C. DeFries, D. W. Fulker, J. K. Hewitt, R. P. Corley, M. C. Stallings (behavioral genetics); R. E. Booth (social psychology); and K. S. Krauter (molecular genetics). Interested U.S. citizens and permanent residents should send a letter of interest, including career goals, curriculum vitae, and three references by April 15, 1998, to: Thomas J. Crowley, M.D., Department of Psychiatry, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Box C268-35, Denver, CO 80262. The University of Colorado is an Equal Opportunity Employer.

### POSTDOCTORAL POSITION MOLECULAR BIOLOGY AND TOXICOLOGY

A Postdoctoral position is available at the Adirondack Biomedical Research Institute (ABRI) to investigate the role of novel genes in cell protection and cell death (apoptosis and necrosis) during chemical damage to epithelia. ABRI is a state-of-the-art facility and is an excellent environment for career enhancement. The candidate should have a Ph.D. or equivalent degree and experience in cell/molecular biology, including PCR and molecular cloning. Experience in areas relating to molecular regulation of cell death is desirable. Please send curriculum vitae, names and telephone numbers of three references, and a letter describing experience and career goals to: James L. Stevens, Ph.D., c/o Personnel Office, Adirondack Biomedical Research Institute, Inc., 10 Old Barn Road, Lake Placid, New York 12946. Affirmative Action/Equal Employment Opportunity/Minority/Females. 98/01.

### POSTDOCTORAL POSITION

Postdoctoral position available to investigate the cell and molecular biology of platelets and endothelial cells in hemostasis, thrombosis, and inflammation. Candidates should be experienced in cell and molecular biology and possess strong written and verbal communication and organizational skills.

Submit curriculum vitae and three references by mail or FAX to: Dr. Ellnor I. B. Peerschke, Director, Hematology Laboratory, Cornell University Medical Center, 525 East 68th Street, Room F-511J, New York, NY 10021. FAX: 212-746-8797. Equal Employment Opportunity/Affirmative Action/Minorities/Females.

### POSTDOCTORAL ASSOCIATE POSITIONS

Two positions will be available (spring/summer 1998) to study molecular aspects of retroviral DNA integration, and the structure and function of retroviral integrases. A Ph.D. with training in chemistry, biochemistry, or retrovirus biology is required. Please send curriculum vitae and have at least two letters of recommendation mailed to: Dr. A. M. Skalka, c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. A summary of our research program and information about Fox Chase can be found at the Fox Chase website: <http://www.fccc.edu>. Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** to study the molecular regulation of neuronal cytoskeletal protein dynamics in transgenic mice and cell culture and its relationship to neurological disease. Emphasis on protein phosphorylation, neuron-glial interactions, axonal transport. Experience in molecular biology, neuronal cell culture, protein analysis desirable. Send curriculum vitae and names of three references to: Ralph Nixon, M.D., Ph.D., Nathan Kline Institute, New York University Medical Center, 140 Old Orangeburg Road, Orangeburg, NY 10962. FAX: 914-398-5422; e-mail: [nixon@nki.rfmh.org](mailto:nixon@nki.rfmh.org). Equal Opportunity Employer/Affirmative Action.

## POSITIONS OPEN

### POSTDOCTORAL FELLOWSHIPS CELLULAR AND MOLECULAR BASIS OF DISEASE

Department of Pathology  
Northwestern University

Junior and Senior Postdoctoral positions are available immediately in an NIH-supported multidisciplinary training program to investigate fundamental mechanisms of pathogenesis in the areas of cell-cell and cell-matrix adhesion, gene expression during development, differentiation, and transformation of epithelia, especially skin and oral cavity, liver, kidney, and pancreas. Mechanisms of intracellular signaling, programmed cell death, autoimmune and infectious-dependent pathogenesis in cardiomyopathies, pemphigus, HIV-related disease, demyelination and remyelination in the central nervous system, and neurodegeneration. Principal Investigators include: Mauro Dal Canto, David Engman, Kathleen Green, Yashpal Kanwar, William Karpus, Mark Lingen, Jonathan Lomasney, Numa Marquez-Sterling, Zoltan Olvtai, Janardan Reddy. Please send curriculum vitae and three letters of reference to: Kathleen J. Green, Ph.D., Associate Chair for Research, Department of Pathology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. FAX: 312-503-8240. Inquiries may be e-mailed to e-mail: [kgreen@nwu.edu](mailto:kgreen@nwu.edu). Northwestern University Medical School is an Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL/ASSOCIATE RESEARCH SCIENTIST POSITIONS COLUMBIA UNIVERSITY

The Department of Physiology solicits applications from M.D. or Ph.D. Researchers in the following areas of investigation: cell and molecular biology, cellular physiology and immunology, membrane biochemistry, neurodegenerative diseases, tumor regression genes, vascular biology, and cell calcium. Send curriculum vitae, a brief letter of interest, and names and addresses of three references to: Samuel C. Silverstein, M.D., Department of Physiology, Columbia University, 630 West 168th Street, New York, NY 10032. Website: <http://cpmcnet.columbia.edu/dept/physio/physio.html>.

Columbia University is an Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL POSITION

Metabolism, signal transduction, diabetes. Division of Diabetes, The University of Texas Health Science Center at San Antonio, San Antonio, Texas. A Postdoctoral position is open immediately for a **BIOCHEMIST** or **PHYSIOLOGIST** in the area of insulin signaling *in vivo* in humans. Applicant must have a Ph.D. Submit curriculum vitae, a letter of interests, and the names of three references to: Lawrence Mandarin, Ph.D., Division of Diabetes, Department of Medicine, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7886. An Affirmative Action/Equal Employment Opportunity Employer.

### TUMOR ANGIOGENESIS

**POSTDOCTORAL POSITION** is available to study expression and hormonal regulation of angiogenic growth factors and receptors in breast cancer. Preference will be given to candidates with a strong background in cellular and molecular biology. Experience with *in vivo* models of angiogenesis and immunohistochemistry/microscopy would be beneficial. Send curriculum vitae and names of three references to: W. Gregory Roberts, Ph.D., Cellular and Molecular Medicine 0651, University of California-San Diego, 9500 Gilman Drive, La Jolla, CA 92093.

**POSTDOCTORAL POSITIONS** available immediately in biomimetics and bone tissue engineering. Expertise is required in polymer synthesis or polymer processing. Submit curriculum vitae and names of three references to: Dr. A. G. Mikos, Rice University, Institute of Biosciences and Bioengineering—MS 144, 6100 Main St., Houston, TX 77005-1892. Website: <http://www.ruf.rice.edu/~che/mikos>.

## POSITIONS OPEN

### BROWN UNIVERSITY POSTDOCTORAL FELLOWSHIPS IN ENVIRONMENTAL PATHOLOGY

Postdoctoral Research Fellowships are available in a Training Program in Environmental Pathology for predoctoral, postdoctoral, and medical students at Brown University. Research training will be provided in basic mechanisms of disease related to environmental exposures including stress, chemical toxicants, and mineral fibers. This is a multidisciplinary program that applies the tools of biochemistry, molecular biology, and cell biology to study the pathogenesis of cancer, reproductive toxicity, and immune dysfunction related to these environmental exposures. A Ph.D. in cell biology, biochemistry, pathology, immunology, or toxicology is required. Additional training in experimental pathology will be provided. This program is funded by the National Institute of Environmental Health Sciences for U.S. citizens or permanent residents. Applicants who are not selected for this training grant may be eligible for other support. Applications received by May 1, 1998, will be given full consideration and should include curriculum vitae, publications, three letters of recommendation, and statement of research goals sent to: Kim Boekelheide, M.D., Ph.D., Chair, Search Committee, Department of Pathology and Laboratory Medicine, Brown University, Providence, RI 02912. Telephone: 401-863-1783; FAX: 401-863-9008. Brown University is an Equal Employment Opportunity/Affirmative Action Employer and actively solicits applications from women, minority, and protected persons.

### POSTDOCTORAL POSITION NEUROGENETICS, MOLECULAR BIOLOGY, AND NEUROPHARMACOLOGY

The Brain Function Research Institute (BFRI) is seeking laboratory staff to join fundamental research of dementia and related brain disorders. BFRI was newly founded in 1997 and is supported by the government. The main project is to make fundamental research for developing new antidementia drugs. Positions are available for individuals with Ph.D. in biochemistry or related field with experience in protein chemistry and/or molecular biology and interest in brain cell damage. BFRI offers a reasonable salary. For additional information, please contact: The Brain Function Research Institute, Executive Director: Tohru Sawada, M.D., Ph.D., c/o National Cardiovascular Center, 5-7-1 Fujishirodai, Suita, Osaka 565 Japan. Telephone: +81-6-834-7646; FAX: +81-6-872-8761.

### POSTDOCTORAL POSITION LIPID METABOLISM

Postdoctoral Research position available immediately to work in a large research group to study lipid and carbohydrate metabolism in healthy and obese individuals. Previous experience in performing clinical research studies is not necessary. Minimum requirements: M.D. or Ph.D. in biological sciences. Please mail or FAX your curriculum vitae, names of three references, and a brief description of your research experience to: Dr. Labros S. Sidossis, Metabolism Unit, SBI, University of Texas Medical Branch, 815 Market Street, Galveston, TX 77550. FAX: 409-770-6626. An Equal Opportunity Employer.

### POSTDOCTORAL POSITION IN MOLECULAR ONCOLOGY UNIVERSITY OF PITTSBURGH

Applications are invited for an individual to study genes involved in the progression pathway to human melanoma. A background in molecular biology/genetics is required and experience in immunohistochemistry/*in situ* hybridization is desirable. Interested candidates should send their curriculum vitae and the names of three references to: Dorothea Becker, Ph.D., Department of Pathology, University of Pittsburgh, BST E 1050, 211 Lothrop Street, Pittsburgh, PA 15213.

**SENIOR and JUNIOR POSTDOCTORAL POSITION(S)** to study structure-function of chemokines and their receptors with opportunity to lead a small group. Require experience in recombinant DNA technology and animal cell biology. Send curriculum vitae and three letters of reference to: P. E. Kolattukudy, Ohio State University, Neurobiotechnology Center, Rightmire Hall, 1060 Carmack Road, Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.



ROYAL BOTANIC GARDEN, EDINBURGH

## Regius Keeper

**c. £55,000 + non-contributory pension**

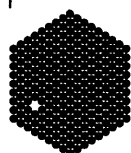
The Secretary of State for Scotland and the Board of Trustees invite applications for appointment as Regius Keeper (Director) of the Royal Botanic Garden, Edinburgh. The vacancy will arise in October 1998 on the retirement of Professor David S Ingram.

The Regius Keeper is responsible to the Board of Trustees for the Management of all aspects of the activities of the Royal Botanic Garden in Edinburgh, and its specialist Gardens at Logan, Dawyck and Benmore. The Garden is the National Botanic Garden of Scotland and is a scientific institution of international standing for research on the world flora, the systematics, evolution, conservation and biodiversity of plants, and the development of species for horticulture. It has large and important collections of living and preserved plants and fungi, an excellent library and modern laboratory facilities for electron-microscopy and molecular systematics. Operating with an annual budget of approximately £6m, the Garden collaborates closely with the Scottish Universities and other institutions in botanical and horticultural teaching and research. The Garden has an important educational role for both schools and the general public and provides an outstanding amenity.

Candidates must have significant experience at a senior level in the management of a large organisation and preferably a record of research achievement in the plant sciences. It is essential that candidates have the ability to provide dynamic leadership to a complex organisation, further develop strong management procedures, promote the activities and international status of the Garden, develop additional sources of funding and maintain effective collaboration with Botanic Gardens, Universities and plant research institutes worldwide.

The salary will be in the region of £55,000 p.a.; a higher figure may be available for an exceptional candidate. Annual increases will be performance related. There is a non-contributory pension scheme. Reasonable relocation expenses will be paid. Further particulars of the post and application forms may be obtained from Thomson Partners, telephone 0141 248 3666, and applications, marked Private and Confidential, should be addressed to Mr R J Cleland, Thomson Partners Ltd, 14 Sandyford Place, Glasgow G3 7NB, to arrive no later than Monday 16 March 1998.

The Royal Botanic Garden, Edinburgh is an equal opportunity employer.



## EMBL

The European Molecular Biology Laboratory (EMBL), an international research organisation with its Headquarters Laboratory in Heidelberg has the following vacancies in Heidelberg:

### MANAGER OF HIGH-PERFORMANCE COMPUTING (ref: 97/91)

Details of these two jobs can be found on the EMBL Web site:  
<http://www.embl-heidelberg.de/>

To apply please send your CV, quoting ref. no., to:

The Head of Human Resources,  
EMBL, Postfach 10.2209, D-69012 Heidelberg. Fax: +49 6221 387555; Tel.: +49 6221 387 208;  
e mail: jobs @ E M B L - Heidelberg.de

*The Imperial Cancer Research Fund is one of Britain's largest charities. Our aim is to prevent, treat or cure all forms of cancer.*

## RESEARCH GROUP LEADERS

**The Imperial Cancer Research Fund (ICRF) plans to appoint several new Research Group Leaders over the next 12 months at its Clare Hall Laboratories near London.**

Appointments will normally be for 6 years in the first instance with consideration for tenure after 4-5 years. The positions are suitable for young scientists who wish to run independent research programmes. Applications from individuals at a more senior level can also be considered. Successful candidates are provided with laboratory space and core technical support, postdoctoral fellows and graduate students. Funding for laboratory equipment and consumables is provided.

Applicants with research interests complementary to those already at Clare Hall Laboratories would be particularly suitable. These areas include DNA replication, repair and recombination, cell cycle control and transcription.

ICRF is one of Europe's largest independent cancer research institutes with an international staff running wide ranging programmes in basic, applied and clinical research. ICRF research laboratories are noted for their excellent core and service facilities.

Clare Hall Laboratories are a modern facility located in the Hertfordshire countryside, within easy reach of London. Further information is available at  
<http://www.icnet.uk/research/depts.html>

Applicants should include a full CV, a brief statement of research interests (approximately 1-2 pages) and the names of three references quoting ref: 1844 and should be submitted to: Dr Tomas Lindahl, Director of Research Laboratories c/o Dr Margaret Swain, Imperial Cancer Research Fund, 44 Lincoln's Inn Fields, London, WC2A 3PX, email M.Swain@icrf.icnet.uk



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## POSITIONS OPEN

### POSTDOCTORAL FELLOWSHIP YALE UNIVERSITY SCHOOL OF MEDICINE

Applications are invited for Postdoctoral position in the Department of Medicine at Yale University School of Medicine. Outstanding candidates with a Ph.D. or M.D. interested in studying the molecular responses to hypoxia, in particular signal transduction pathways regulating gene transcription of stress response genes and apoptosis in smooth muscle and endothelial cells, are encouraged to apply. Experience in molecular biology and cell biology is essential. Experience in differential display or SAGE analysis is highly desirable. Ongoing projects in the laboratory focus on molecular regulation and function of stress response genes, biology of carbon monoxide, and apoptosis. Please respond with curriculum vitae and three letters of recommendation to:

Augustine M. K. Choi, M.D.

Associate Professor of Medicine

Director of Research

Section of Pulmonary and Critical Care Medicine

Yale University School of Medicine

333 Cedar Street

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New Haven, CT 06520-8057

Telephone: 203-785-3627

FAX: 203-785-3826

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**POSTDOCTORAL POSITION** in cell and molecular biology. The Cell Biochemistry Section at the Hormel Institute, University of Minnesota invites applications from individuals with Ph.D. degree in biochemistry or cell and molecular biology for a Postdoctoral position. Candidates should have a strong background in protein purification as well as in basic cell and molecular biology techniques. This research will involve large-scale purification of recently identified placental growth factors, and determination of growth factor effects on cell growth and wound healing using established cellular and animal models. Please send a curriculum vitae, a description of research experience, and letters from three referees to: Dr. Zoltan Kiss, The Hormel Institute, University of Minnesota, 801 16th Avenue N.E., Austin, MN 55912. FAX: 507-437-9606; Telephone: 507-437-9645; e-mail: zkiss@smig.net. The University of Minnesota is an Equal Opportunity Educator and Employer.

**POSTDOCTORAL POSITION** in cell biology available to study biogenesis and quality control mechanisms of polytopic proteins at the ER membrane. Projects will focus on the role of translocation machinery and cellular chaperones during folding, maturation, and degradation of ABC transporters and/or aquaporin water channels. Successful candidates should have prior experience in one or more aspects of protein translocation, folding, and/or degradation. M.D. or Ph.D. required. Please submit letter of interest, curriculum vitae, and names of three references to: Dr. William Skach, Stellar-Chance Laboratories, Room 305, University of Pennsylvania, 422 Curie Boulevard, Philadelphia, PA 19104-6100. FAX: 215-573-8590. An Equal Opportunity Employer.

**PREDOCTORAL and POSTDOCTORAL FELLOWSHIPS** available 1998 to study neural, chemical, and mechanical aspects of the control of breathing and circulation in unanesthetized animals and humans. Contact: Jerome A. Dempsey, Ph.D., The John Rankin Laboratory of Pulmonary Medicine, University of Wisconsin School of Medicine, 504 North Walnut Street, Madison, WI 53705-2368. FAX: 608-263-2820. Note: Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality. The University of Wisconsin is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available for hydro-mechanical studies of swimming fish. A Ph.D. in engineering or biology and experience in unsteady fluid mechanics required. By 24 March 1998 send curriculum vitae and names and addresses of three references to:

Dr. John H. Long, Jr.

Department of Biology

Vassar College

Poughkeepsie, NY 12604

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## POSITIONS OPEN

### POSTDOCTORAL FELLOWSHIPS IN ATHEROSCLEROSIS AND VASCULAR BIOLOGY

Positions open for Postdoctoral Fellows within a NIH-funded Atherosclerosis and Vascular Biology Training Center for July 1998 and July 1999. This multidisciplinary program offers training in (1) structural biology: determining structure of biomolecules involved in lipid transport/metabolism by electron crystallography, multidimensional NMR, molecular modeling, and dynamics; (2) biochemistry: mechanisms of lipid/lipoprotein metabolism using surface chemistry, peptide synthesis/sequencing, spectroscopy, and stable isotope methodology; (3) cell and molecular biology: role of macrophage/endothelial cell/smooth muscle cell scavenger receptors and oxidized lipoproteins in atherosclerosis/angiogenesis using cell culture, transgenic animals, and site-directed mutagenesis; mechanisms of SMC proliferation and arterial stenosis, blood flow/shear stress induction of genes, role of adhesion molecules in atherosclerosis/thrombosis; gene therapy for cardiovascular disease. Candidates must be U.S. citizens or resident aliens. Additional information, website: <http://athero.med.bcm.tmc.edu/TrainGrT/web1.html>. Please send curriculum vitae, statement of research interests, and names of references to: Joel D. Morrisett, Ph.D., Atherosclerosis Section, Department of Medicine, The Methodist Hospital MS A601, Baylor College of Medicine, Houston, TX 77030. E-mail: [morriset@bcm.tmc.edu](mailto:morriset@bcm.tmc.edu). Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.

An exciting opportunity for a **POSTDOCTORAL POSITION** in neuroscience is available to study the roles of protein kinase C isozymes in neural plasticity, neurodegenerative disorders, and alcoholism using transgenic and gene targeting approaches. Highly motivated candidates with an M.D. or Ph.D. degree and background in biochemistry, cell biology, neuroscience, or molecular biology are encouraged to apply. Experience in neuroanatomy is considered a plus. For more information, see website: <http://gallo.ucsf.edu>. Send curriculum vitae, description of past research, and names of three references to: Dr. Robert O. Messing, Gallo Research Center, Department of Neurology and Program in Neuroscience, University of California, San Francisco, Building 1, Room 101, 1001 Potrero Avenue, San Francisco, CA 94110. FAX: 415-648-7116; e-mail: [romes@itsa.ucsf.edu](mailto:romes@itsa.ucsf.edu). Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately to study reproductive and ingestive behavior, neuroanatomy, and neuroendocrinology in the context of energy balance. Preference will be given to candidates with expertise in one or more of these areas: neuroendocrinology of reproduction, seasonal adaptation, or ingestive behavior. Investigations might involve immunocytochemistry, *in vivo* microdialysis for LHRH, radioimmunoassay of steroids and LHRH, biochemical assay of circulating and tissue metabolites or other relevant techniques.

Send curriculum vitae and names of three references to: Jill E. Schneider, Department of Biological Sciences, Lehigh University, Bethlehem, PA 18015. E-mail: [js0v@lehigh.edu](mailto:js0v@lehigh.edu); Telephone: 610-758-3629. Lehigh University is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** available to study the mechanism of protein folding. Experience in site-directed mutagenesis is necessary. Candidates should also have a background in NMR and other spectroscopic techniques. The role of the chaperonins in folding is also under study. Full descriptions can be found on website. Send curriculum vitae and names of references to: Dr. Carl Frieden, Department of Biochemistry and Molecular Biophysics, Washington University School of Medicine, 660 South Euclid Avenue, Box 8231, St. Louis, MO 63110. Website: <http://www.biochem.wustl.edu/cflab>; e-mail: [frieden@biochem.wustl.edu](mailto:frieden@biochem.wustl.edu). An Equal Opportunity Employer.

NIH-funded **POSTDOCTORAL POSITION** available to study the neurophysiological changes in hippocampus and striatum *in vivo* and *in vitro* after transient ischemia (Gao and Xu, *Neurosci.* 75, 1996). Applicants should have a Ph.D. with electrophysiological experience. Send curriculum vitae and names of references to: Dr. Zao C. Xu, Department of Anatomy, Indiana University School of Medicine, 635 Barnhill Drive, Indianapolis, IN 46202 USA. E-mail: [zcxu@anatomy.iupui.edu](mailto:zcxu@anatomy.iupui.edu).

## POSITIONS OPEN

### BLOOD COAGULATION ENZYMOLOGY VANDERBILT UNIVERSITY

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

**POSTDOCTORAL POSITION** is available immediately to study the role of a novel Kunitz-type proteinase inhibitor in endothelial cell extracellular matrix. Minimum qualifications include a Ph.D. in biochemistry and a strong background in molecular biology. Some experience with protein biochemistry and/or tissue culture is also desirable. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: Dr. Walter Kisel, Department of Pathology, University of New Mexico School of Medicine, Albuquerque, NM 87131. FAX: 505-272-5139; e-mail: [wkisel@salud.unm.edu](mailto:wkisel@salud.unm.edu).

**POSTDOCTORAL POSITION** available to study structure/function relationships in a recently recognized family of prokaryotic and eukaryotic enzymes that contain covalently bound flavin, oxidize various secondary amino acids, and, in certain cases, contribute to the tetrahydrofolate 1-carbon pool. Candidates should have a strong background in enzymology and recombinant DNA techniques. Send curriculum vitae, including names and telephone numbers of three references, to: Dr. Marilyn S. Jorns, Allegheny University of the Health Sciences, Department of Biochemistry, 2900 Queen Lane, Philadelphia, PA 19129. E-mail: [jornsm@auhs.edu](mailto:jornsm@auhs.edu).

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May 28 to June 12, 1998, at North Carolina State University. A series of three-day workshops on statistics for Geneticists; genetics for Statisticians; population, quantitative, molecular, and forensic genetic data analysis; QTL mapping; disease gene association mapping. See World Wide Web page at website: <http://www.stat.ncsu.edu> for details, or contact: Dr. B. S. Weir, e-mail: [weir@stat.ncsu.edu](mailto:weir@stat.ncsu.edu); FAX: 919-515-7315.

## EUROPEAN OPPORTUNITIES

The Swiss Federal Institute of Technology in Zurich (ETHZ) invites applications for the position of an:

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The appointment will be for three years with a possible extension for a second three-year term. Participation in the teaching program in microbiology is required.

Applicants should submit a curriculum vitae, publication list, and a summary of current and future research interests to: The President of ETH Zurich, Prof. Dr. O. Kübler, ETH Zentrum, Zurich CH-8092 Switzerland no later than April 15, 1998. The ETHZ specifically encourages female candidates to apply with a view toward increasing the proportion of female professors.





## deCODE genetics Inc.

deCODE genetics is a population-based genomics company which recognizes that the scarce resource in human genetics today is the study population. The company was founded in 1996 in Iceland, a country with a population of 270,000 people, all descendant from a 7th century founding population that expanded in geographical isolation. This setting provides an ideal "captive" population which is homogenous and exhibits founder effects for many traits. Iceland has computerized centuries of genealogy and it provides a high quality health care system. All of these qualities enable deCODE genetics to more swiftly discover disease-related genes for the common complex genetic diseases.

### Research Scientists

We are hiring energetic and creative Research Scientists who will be involved in positional cloning projects and the nationwide genotype/genealogy/phenotype database projects using our state of the art robotics and sequencing instruments. Candidates must have a Ph.D. and a strong background in genetics, molecular biology, protein biochemistry, or cell biology.

### Bioinformatics – Statistical Genetics

We are seeking scientists with a solid background in bioinformatics. Applicants with a strong theoretical background in sequence algorithms such as homology and gene searches as well as practical experience in implementing these algorithms are urged to apply. We are also seeking individuals with expertise in databases, data warehouses, and data mining. Consideration for positions in statistical genetics requires a Ph.D. degree.

Please send a detailed CV to: Director of Personnel, DeCODE genetics, Lynghals 1, Reykjavik, Iceland 110. Fax: 354-570-1901, e-mail: [employment@decode.is](mailto:employment@decode.is).

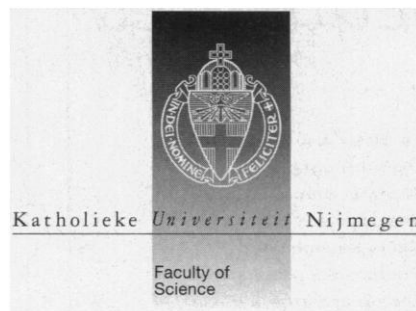
## *full professor m/f* *solid state NMR*

The Faculty of Science at the University of Nijmegen carries out research and teaching in Physics, Chemistry, Biology and Environmental Science. The Nijmegen SON Research Center (NSR Center) is an established Research Center in The Netherlands and comprises researchers from a variety of areas of Chemistry and Physics. It is an integral part of the Chemistry Department. Within this Center there is currently a position vacant for a full professor solid state NMR.

### Position

The position available is in the Division of Physical Chemistry and the successful candidate will be expected to perform research in the development and applications of solid state NMR Spectroscopy. In addition, he/she should be willing to collaborate with other research groups within the NSR Center, and to make a contribution to the international profile of the Center by performing high quality research. At the same time the successful candidate must be able to obtain external funds as needed to support the proposed research. He/she must be able to provide a leadership role within the national solid state High-frequency NMR Facility (housed at the University) as well as to participate in cooperative research.

The qualified candidate will also be asked to participate in teaching undergraduate and graduate students in the first and second phase of the Chemistry program.



### Profile

For this position we are looking for a chemist/physicist with:

- a broad knowledge of magnetic resonance, with an emphasis on solid state NMR and an interest in the use of these techniques in a more general sense, as is necessary for solving chemical structures and reactions
- a broad experience in carrying out scientific research
- excellent teaching qualifications
- experience in managing and leading a research group
- experience in obtaining external financial support.

We expect that the candidate will be able to take part in administrative and organizational duties both within, and outside the Department.

The faculty is making an effort to increase the number of women in academic positions. Women are, therefore, strongly encouraged to apply for this position.

### Information and application

A written application with curriculum vitae and list of publications should be addressed, before April 1st, 1998, to the Faculty of Science, Personnel Department, Toernooiveld 1, 6525 ED Nijmegen, The Netherlands, quoting the number 98-11. Those who may want to provide the names of possible candidates or require additional information about this position should contact Prof. Dr. C.W. Hilbers, Chairman of the Search Committee, Faculty of Science, tel. ++31 (0)24 365 21 60, e-mail: [ceesh@sci.kun.nl](mailto:ceesh@sci.kun.nl)



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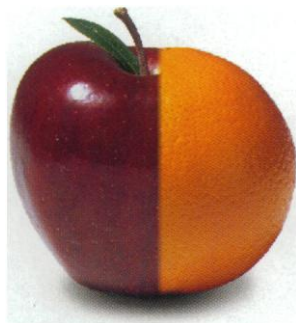
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