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### Journal Data Via E-Mail

The ISI Alerting Services, which include Journal Tracker, Corporate Alert, and Personal Alert, deliver bibliographic data and author abstracts from a multidisciplinary database. Journal Tracker delivers bibliographic data and author abstracts from journals via e-mail. Corporate Alert electronically disseminates tables of contents and author abstracts throughout an entire organization directly to individuals via e-mail. Personal Alert, a profile-based alerting service that creates research profiles by using key words and targeted criteria, combines customized profiling with expert consulting to deliver research information via e-mail. **Institute for Scientific Information.** For information call 800-336-4474 or circle 142 on the Reader Service Card.

### PRODUCTS

### Microdialysis and Microconcentration

A patented system for the dialysis or concentration of small sample volumes of proteins, peptides, or nucleic acids is available. Made of Teflon for high recovery, the Biodialyser products consist of more than 50 configurations for various applications. Sample volumes can range from 10  $\mu$ l to 5 ml. The kits come with pre-washed membranes with a molecular weight cut-off range from 100 to 500,000 Da. The Single-Sided Biodialyser can be used for simple dialysis of salts, exchange of buffers, or concentration of samples. They are available with or without a built-in magnet for use on a magnetic stirrer. The Double-Sided Biodialyser can be used for simple dialysis as well as for electroelution, electroconcentration, electrodialysis, or equilibrium dialysis. There are membranes at both ends of the micro-chamber for double the rate of dialysis. **The Nest Group.** For information call 800-347-6378 or circle 143 on the Reader Service Card.

### Camera for Dynamic Neuroscience Studies

Neurocam is designed for the study of rapid neurological processes such as the propagation of electrical impulses along nerve cells. NeuroCam is an 80 by 80 pixel digital charge-coupled device camera with thermoelectric cooling and high-precision electronics to extract low-noise 12-bit images at up to 500 frames per second. A computer interface precludes the need for expensive frame grabbers. It is controlled by PixCel, Windows 95-based software that provides full camera control,

including instant focusing mode with automatic exposure, manual exposure times from milliseconds to hours, and sub-array readout. **Life Science Resources.** For information call +44 (0) 1223 845836 or circle 144 on the Reader Service Card.

### Digital Image Color Printer

The SP700 Color Printer produces a 4-inch by 6-inch dye sublimation color print from a Windows or Macintosh computer's digital image in just 90 seconds. At a cost of \$595 for the printer and 49 cents per print, it is an



affordable way to produce rich, saturated color images and high-quality gray-scale prints to document work, share results with colleagues, or enter into a lab notebook. The water-resistant, durable print media makes use of inks that are dry to the touch and are useful for documenting microscopy and gel electrophoresis images. **Kodak Scientific.** For information call 800-225-5352 or circle 145 on the Reader Service Card.

### Total RNA Isolation

The RNeasy Maxi Kits purify up to 6 mg total RNA from animal cells or tissue, bacteria, and yeast without phenol extraction or ethanol precipitation. The kits simplify large-scale RNA isolation by combining a stringent lysis with the speed of silica-membrane spin technology. In just 1 hour, high-quality total RNA from up to  $5 \times 10^8$  cells or 1 g of tissue is ready for poly(A)<sup>+</sup> selection, Northern analysis, or reverse transcriptase-polymerase chain reaction. **Qiagen.** For information call +49 (0) 2103-892-272 or circle 146 on the Reader Service Card.

### Chemistry Research Software

Version 2.0 of Alchemy 2000 chemistry research software for the personal computer offers several new features, including search-

ing, intermolecular interactions, and molecular dynamics calculation. Each of these features also includes a wizard to guide the user through the steps in performing a task. The conformational searching feature lets chemists explore the conformational spaces of flexible molecules to find global minimums or geometries that satisfy specific distance constraints. Searching can be done systematically by stepping through selected dihedrals in specified increments or by randomly assigning values to dihedrals. Conformations of flexible rings can also be explored. **Tripos.** For information call 800-323-2960 or circle 147 on the Reader Service Card.

### Pipette Loading Device

The Tipster pipette loading device eliminates the need to manually load plastic pipette tips into tip containers. It automatically loads six templates of tips per container, which are then transferred, by use of the tip picker, to tip holders. The Tipster can be used in cell culture, genetic, chemical, and medical laboratories that perform blood serum tests or any laboratory that applies plastic tips. This patented device accommodates most brands of tips and is easy to maintain. **Belco Glass.** For information call 800-257-7043 or circle 148 on the Reader Service Card.

### Literature

*Hydra Microdispensers for Large Scale Genomics and High Throughput Screening* is a brochure on a line of instruments that provides microliter dispensing without the use of pipette tips. Among the products described is the Hydra-384, the first 384-channel microdispenser. **Robbins Scientific.** For information call 800-752-8585 or circle 149 on the Reader Service Card.

*Advanced ChemTech 1998-1999 Product Catalog* contains hundreds of new products for peptide synthesis, research, and immunology, as well as products for combinatorial and solid-phase organic chemistry. **Advanced ChemTech.** For information call 800-456-1403 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.

## DISPLAY CLASSIFIED ADVERTISEMENTS

Call for rate and deadline information on display classified advertisements.

E-mail: [science\\_displayads@aaas.org](mailto:science_displayads@aaas.org)

**Bren Peters**  
Recruitment Display Advertising  
Telephone: (202) 326-6541  
FAX: (202) 289-6742  
E-mail: [science\\_displayads@aaas.org](mailto:science_displayads@aaas.org)

**Gabrielle Boguslawski**  
Recruitment Advertising Sales Manager  
Telephone: (718) 491-1607  
FAX: (202) 289-6742

**Debbie Cummings**  
European Recruitment Advertising  
Telephone: +44 (0) 1223 302067  
FAX: +44 (0) 1223 576208  
E-mail: [european\\_ads@science-int.co.uk](mailto:european_ads@science-int.co.uk)

## LINE CLASSIFIED ADVERTISEMENTS

### How to Submit a Line Classified Ad:

Send your ad text to: e-mail: [science\\_classifieds@aaas.org](mailto:science_classifieds@aaas.org); fax: (202) 289-6742. You must include your telephone number, billing address, and purchase order number in your e-mail or fax. Do not bold, italicize, or abbreviate any words. SCIENCE will edit and typeset ads according to SCIENCE style. **SCIENCE cannot provide proofs of typeset line ads.** Available categories: Positions Open, Meetings, Announcements, and Courses and Training. Line advertisements are not commissionable.

**Estimates:** SCIENCE will provide a cost estimate for line ads. **This is an approximate cost only.** Purchase orders must allow for variation between estimated lines and actual typeset lines and resulting final cost.

For line advertising deadlines, call Eric Banks, Telephone: (202) 326-6555; or Troy Benitez, Telephone: (202) 326-6740; FAX: (202) 289-6742. E-mail: [science\\_classifieds@aaas.org](mailto:science_classifieds@aaas.org)

**Credit Cards:** SCIENCE accepts American Express, MasterCard and VISA. Discount does not apply to credit cards.

**Cancellations:** Deadline for cancellation is Tuesday, 10 days prior to issue date.

**Discounts:** A 3% cash discount is granted to all prepaid ads.

**Ads from Outside the U.S.:** A discount of \$30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Debbie Cummings. Telephone: +44(0) 1223 302067; FAX: +44(0) 1223 576208.

**SCIENCE Professional Network:** Unless otherwise instructed, all classified advertisements submitted for publication in SCIENCE are automatically posted on SCIENCE's online classified advertising service, SCIENCE Professional Network, at no additional charge. [www.sciencemag.org](http://www.sciencemag.org)

### Mail, FAX or E-mail materials to:

SCIENCE Classified Advertising  
1200 New York Avenue, N.W., Room 911  
Washington, DC 20005  
FAX: 202-289-6742  
E-mail: [science\\_classifieds@aaas.org](mailto:science_classifieds@aaas.org) (please include your telephone number in e-mail)

SCIENCE reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

## POSITIONS OPEN



UNIVERSITY AT ALBANY  
STATE UNIVERSITY OF NEW YORK

### PROFESSOR AND CHAIR DEPARTMENT OF BIOLOGICAL SCIENCES

Website: [www.albany.edu/biology](http://www.albany.edu/biology)

The University at Albany invites applications and nominations for the position of Professor and Chair of the Department of Biological Sciences. The Department has 30 full-time faculty with multidisciplinary research interests ranging from ecology and evolution to molecular cell biology and biochemistry and has well-established M.S. and Ph.D. programs. The Department has recently embarked on a major research initiative in comparative functional genomics. This initiative has strong support from the University, and the Department has been targeted for substantial resources including a number of tenure-track appointments and a new, state-of-the-art research facility (over 200,000 square feet). Albany is the center of a rich educational, cultural, and recreational region, and there are ample opportunities for collaborative interactions with faculty of neighboring scientific institutions. These include Albany Medical College and Rensselaer Polytechnic Institute.

The successful candidate will have a distinguished record of scholarly activity, an internationally recognized program of sponsored research, a commitment to excellence in education, and demonstrated administrative and leadership skills.

The recruitment package and resources are very competitive. Review of applications will begin immediately. A letter of application, curriculum vitae, and names of three references should be submitted to:

Biological Sciences Chairperson  
Search Committee  
Office of the Provost, ADM 201  
University at Albany  
State University of New York  
Albany, NY 12222

*The University at Albany is an Equal Opportunity/Affirmative Action Employer.*

### TENURE-TRACK FACULTY POSITION AT CARB BIOINFORMATICS/COMPUTATIONAL BIOLOGY

Applications are invited for a tenure-track faculty position at the Center for Advanced Research in Biotechnology (CARB). We are particularly interested in applicants who use computational methods to derive new information from existing sequence and structure data, and in applicants developing computer models of cellular and subcellular processes. The successful candidate will be expected to establish a strong, independent, externally funded research program. CARB is a research center of the National Institute of Standards and Technology (NIST) and the University of Maryland Biotechnology Institute (UMBI). CARB is devoted to fundamental studies of macromolecular structure, function, and engineering, and offers opportunities for collaboration with scientists involved in high-field NMR spectroscopy; physical biochemistry; structural immunology; protein folding, stability, modeling, and engineering; macromolecular crystallography; and computational chemistry.

Interested candidates should send a curriculum vitae, a summary of research interests and plans, and arrange for at least three letters of reference to be sent to:

Bioinformatics Search Committee  
Center for Advanced Research in Biotechnology  
University of Maryland Shady Grove Campus  
9600 Gudelsky Drive  
Rockville, MD 20850

Review of applications will begin on February 1, 1998. CARB is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply. This is a NIST-funded position. Preference will be given to U.S. citizens.

## POSITIONS OPEN

### FACULTY POSITION UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES

Department of Pharmacology and Toxicology

The Division of Toxicology is recruiting a full-time, tenure-track faculty member at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. Investigators with research excellence in either molecular aspects of oxidative stress, mechanisms of cell injury and death, carcinogenesis, molecular toxicology, or neurotoxicology are encouraged to apply. Excellent applicants working in other areas of toxicology using innovative approaches in basic toxicology mechanisms will also be considered. Candidates should have a Ph.D. or equivalent degree, postdoctoral training, evidence of research productivity, and a commitment to quality teaching of graduate and medical students. Applicants at the level of Associate or Full Professor must have extramural research funding. Excellent opportunities are available for collaborative research with other faculty, and with adjunct faculty at the nearby National Center for Toxicological Research. A competitive start-up package and laboratory space in our new Biomedical Research Building will be available for the successful candidate. Our Internet website: <http://www.UAMS.edu/pharmtox/pharmtox.htm>. Candidates should send curriculum vitae, a brief prospectus, and the names of three references to: Jack A. Hinson, Ph.D., Division of Toxicology, Slot 638, University of Arkansas for Medical Sciences, 4301 West Markham Street, Little Rock, AR 72205. Applications should be received before March 15, 1998. *University of Arkansas for Medical Sciences is an Equal Opportunity Employer.*

### DEPARTMENT HEAD DEPARTMENT OF BIOLOGY FALL 1998 TENURED FULL PROFESSOR

Northern Michigan University invites applications for Department of Biology Head as tenured Full Professor. Requirements include Ph.D. (preferred but not limited to: entomology/invertebrate zoology, lower plant biology, plant molecular biology, or wildlife ecology), demonstrated administrative abilities, record of professional accomplishments in teaching and research. Head has overall responsibility for instruction, recruitment, promotion/tenure, budget; and is expected to teach, direct research, act as departmental advocate, and lead in Equal Opportunity. Complete qualifications provided on request.

For additional information visit website: <http://www.nmu.edu/biology>.

Application review begins February 15, 1998, and continues until position is filled. Appointment begins July 1, 1998. Send curriculum vitae, statement of administrative philosophy and vision, and names, addresses, telephone numbers, and e-mail addresses of five references to: Chair, Department Head Search, Department of Biology, 1401 Presque Isle Avenue, Northern Michigan University, Marquette, MI 49855-5341. Telephone: 906-227-2310. FAX: 906-227-1063. E-mail: [biology@nmu.edu](mailto:biology@nmu.edu).

*Northern Michigan University is an Affirmative Action/Equal Opportunity Employer.*

**FACULTY POSITIONS** in molecular neurobiology. The Ohio State University is in the midst of a major initiative in the molecular life sciences that will include at least thirty new faculty positions. The University has made a major commitment to develop an outstanding interdisciplinary program in the molecular neurosciences. Applications are invited for two tenure-track faculty positions at the ASSISTANT or ASSOCIATE PROFESSOR level. The new faculty members will be expected to develop independent research programs using molecular approaches to areas such as sensory systems, neuroimmunology, injury, degeneration, and regeneration in the nervous system. The successful candidates will hold positions in either the College of Medicine or Dentistry, with a joint appointment in the Neurobiotechnology Center. A transgenic mouse facility and other excellent support and instrumentation facilities are available. Applicants should submit a curriculum vitae, statement of research plans, and arrange to have three letters of reference sent to: Dr. Caroline Whitacre, Chair, Molecular Neurobiology Search Committee, 2078 Graves Hall, 333 West Tenth Avenue, Columbus, OH 43210-1239. Review will begin on March 1, 1998. *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disability are encouraged to apply.*



## ENDOWED PROFESSORSHIP IN OPHTHALMOLOGY

The College of Veterinary Medicine, University of Missouri, announces an opening for the Ruth M. Kraeuchi Professorship in Veterinary Ophthalmology. The Kraeuchi Professorship offers a unique opportunity for a highly motivated academician to develop a focused research effort while contributing to established veterinary ophthalmology programs at the University of Missouri. The successful candidate will be charged with developing a sustained, extramurally funded research program investigating spontaneous or experimental eye diseases. Development of animal models of human eye diseases will be encouraged.

The Kraeuchi Professor should be a program builder and an active team member as he/she will be expected to provide leadership in developing and coordinating unit-wide research programs and in contributing to graduate training programs. Applications are sought from both ACVO board-certified veterinary ophthalmologists with dual training in research and clinical ophthalmology and basic scientists with well-established research programs.

Candidates must be qualified at the academic level of Professor. Applicants should send a letter of intent, curriculum vitae, and the names of 3 references to **Dr. Cecil P. Moore, A337 Clydesdale Hall, 379 E. Campus Drive, University of Missouri, Columbia, MO 65211, (phone) 573-882-7821**. Review of applications will begin February 15, 1998, and continue until the position is filled.

*The University of Missouri-Columbia is an Equal Opportunity Institution and complies with the guidelines of the Americans with Disabilities Act of 1990. If you have special needs as addressed by the ADA and need assistance with this or any portion of the application process, notify us at the above address or telephone number as soon as possible. Reasonable efforts will be made to accommodate your special needs.*

## Dean

### College of Pharmacy Oregon State University

Oregon State University, a Carnegie I Research Institution, invites nominations and applications for persons qualified to provide leadership as Dean of the College of Pharmacy. The Dean reports directly to the Provost and Executive Vice President. The Dean is the chief administrative officer of the College with responsibility for academic leadership and fiscal management of the College. Responsibilities include management and implementation of research, teaching, and service programs; creating and sustaining an environment of academic excellence; developing and enhancing relationships with internal and external constituencies; contributing significantly to the University and College financial development; and promoting and maintaining a close relationship with alumni.

Candidates must have a Ph.D. or Pharm.D. with appropriate postdoctoral experience and qualify for a position as a tenured professor with a distinguished record in teaching, research, and service and demonstrated scholarly and administrative ability. Preference will be given to candidates eligible for licensure as a pharmacist by the Oregon Board of Pharmacy.

This is a 12-month, state-funded position beginning July 1, 1998, or as soon thereafter as a suitable applicant has been selected. For full consideration, apply by February 15, 1998. The recruitment will remain open until the position is filled. The Position Announcement and Screening Criteria can be downloaded from <http://osu.orst.edu/dept/cop>.

Candidates must submit letter of interest, a curriculum vitae, and the names, address, and telephone numbers of three references by February 15, 1998, to:

**John H. Block, Ph.D., Chair**  
**Search Committee for Dean of the College of Pharmacy**  
**Oregon State University College of Pharmacy**  
**203 Pharmacy Building**  
**Corvallis, OR 97331-3507**

**Telephone: 541-737-5779**

**Fax: 541-737-3999**

**Internet: blockj@ccmail.orst.edu**

*Oregon State University is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.*

## MOLECULAR BIOLOGISTS

Vical Inc. is a San Diego-based biotechnology company with a world leadership position in research and development of DNA-based delivery systems for vaccines against infectious diseases and for therapeutics to treat cancer and metabolic disease. Our Department of Molecular Biology has openings for two individuals interested in pursuing a research career in Gene Therapy.

One of the positions requires a strong background in developing the technology of Polymerase Chain Reaction and will involve research into novel applications of this technology for Gene Therapy.

The second position requires a strong background in the molecular biology of immune response and an interest in applying this knowledge to research into the mechanism of immunity generated by direct injection of DNA into tissue.

Both candidates should hold a Ph.D. in Molecular Biology/Genetics and have completed at least two years of Postdoctoral Research using techniques common to this discipline. Excellent communication skills and a strong publication record in reference journals reporting original research are also required.

For consideration, please send your resume to: Human Resources Dept., VICAL INC., 9373 Towne Centre Drive, Ste. 100, San Diego, CA 92121, or Fax to: (619) 646-1350. EOE M/F/D/V.



## UNIVERSITY OF Massachusetts AMHERST

### DARWIN FELLOW

UMASS Amherst announces a postdoctoral research/lectureship in organismic and evolutionary biology. More than 75 faculty members in 10 departments are committed to the study of organismic and evolutionary biology, offering unique training and research opportunities for recent Ph.D.'s. Our 2-year lecture/research position allows independent research with a faculty member and experience developing and teaching a 1-semester undergraduate course. Position subject to availability of funds.

First Year Salary: \$27,500;

Second Year Salary: \$32,500.

To apply, send: CV; 3 letters of reference; statements of research and teaching interests; and letter of support from your proposed UMASS Amherst faculty sponsor. E-mail [darwin@bio.umass.edu](mailto:darwin@bio.umass.edu) or call (413) 545-0928 for a list of faculty research interests and more information. Send materials to:

**Darwin Fellowship**  
**OEB/Morrill Science Center**  
**University of Massachusetts Amherst**  
**Amherst, MA 01003-5810**

Application review begins February 15, 1998. Position remains open until successful candidate is selected. Start date: September 1, 1998.

*The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.*

## UCLA: BIOCHEMICAL CYCLES (2 POSITIONS)

The Institute of Geophysics and Planetary Physics at UCLA invites applications for two faculty positions in biogeochemistry/geobiology, as applied to the study of global biogeochemical cycles. The appointments are offered at a junior level, but senior appointments are not excluded. They will be made jointly with one or two of the Departments of Atmospheric Sciences, Biology, Chemistry & Biochemistry, Earth & Space Sciences, Microbiology & Molecular Genetics, and the Institute of the Environment, depending on the interests of the successful candidates. Specializations in light isotope geochemistry, marine or terrestrial ecosystems, Earth history, climate, or life in extreme environments are especially welcome.

Applications should include a curriculum vitae, a list of publications, a short statement of teaching and research interests, and the names of three or more individuals familiar with the candidate's work. Formal consideration of applications will commence after February 1, 1998, and the positions will remain open until filled. *UCLA is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.*

Applications to: **Professor Michael Ghil, Director, Institute of Geophysics and Planetary Physics, University of California, Box 951567, Los Angeles, CA 90095-1567**

Enquiries to: **Co-Chairs of Search Committee, Professors James C. McWilliams ([jcm@atoms.ucla.edu](mailto:jcm@atoms.ucla.edu)) and Bruce Runnegar ([runnegar@ucla.edu](mailto:runnegar@ucla.edu))**

## **US Environmental Protection Agency Office of Research and Development**

EPA is seeking four highly qualified scientific managers to provide executive leadership for research divisions strategically located in ecologically significant geographic regions across the U.S. These divisions contribute to developing the scientific foundation to support EPA's mission with emphasis on reducing uncertainty in risk assessment. Successful candidates for these positions will plan, develop, organize, direct, and implement multimillion dollar research programs.

**Division Director, Environmental Sciences Division,  
National Exposure Research Laboratory, Las Vegas, Nevada.**

This Division is responsible for conducting research and for directing development and technology transfer programs on environmental exposures to ecological and human receptors. Areas of specialization include:

- methods for characterizing chemical and physical stressors, with special emphasis on ecological exposure.
- landscape and regional assessment capabilities through the use of remote sensing and advanced spatial analysis techniques.
- application of advanced monitoring technology to issues involving surface and subsurface contamination.

**Division Director, Mid-Continent Ecology Division,  
National Health and Environmental Effects Research Laboratory, Duluth, Minnesota.**

This Division performs research to provide scientific information on ecotoxicology and freshwater ecological effects with an emphasis on the Great Lakes and Great Plains regions. Areas of specialization include:

- understanding mechanistic bases of aquatic toxicity.
- developing methods and models that screen, diagnose, and predict ecological effects for use in ecological risk.

**Division Director, Atlantic Ecology Division, National Health and Environmental Effects  
Research Laboratory, Narragansett, Rhode Island.**

This Division's research focuses on marine, coastal, and estuarine ecology. Investigators develop and evaluate theory, methods, and data on coastal waters and watersheds of the Atlantic. Areas of specialization include:

- modeling the effects of multiple stressors on coastal ecosystems.
- developing methods for assessing ecological effects associated with contaminated marine sediments.
- conducting geographic-based ecological assessments for the Atlantic coast.

**Division Director, Gulf Breeze Ecology Division,  
National Health and Environmental Effects Research Laboratory, Gulf Breeze, Florida.**

The mission of this Division is to assess the condition of coastal ecosystems (wetlands, bays, estuaries, and coral reefs) in the Gulf of Mexico and to identify causes of change in ecological status. Areas of specialization include:

- studies of effects across multiple levels of biological organization (from microorganism to the watershed/landscape level).
- developing models that predict the impact of chemical contaminants, disease, nutrients, energy development, and global warming on coastal ecosystems.
- microbial ecology.

To meet the requirements of these positions, applicants must have a Bachelor's (or higher) degree in one of the biological or physical sciences (advance degree preferred, but not required). Candidates must also have competence and substantive specialized (operating, administrative, or managerial) experience in a type of work or a combination of functions directly related to this position. In addition, applicants must meet the executive and technical qualifications described in the vacancy announcement. Salary will be commensurate with level of appointment in the federal Senior Executive Service. To obtain a copy of the vacancy announcement for each position in which you are interested, call or write to:

**Ms. Dione Moody, U.S. EPA, Executive Resources & Special Programs (3641),  
401 M Street, SW, Washington, DC 20460.** The telephone number is **202-260-6374**.

Applications must be postmarked by 2/27/98.

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Calgene, Inc., a wholly owned subsidiary of Monsanto Company, is a leading agricultural biotechnology company developing high value, genetically engineered food, nutrition and consumer-oriented products. Our continued success requires several full-time Research Associates to join our Research Facility in Davis, CA.

## RESEARCH ASSOCIATES

### NUTRITION/ ANALYTICAL CHEMISTRY

You will assist in chemical and biochemical analysis of transgenic plants engineered for production of carotenoids. Responsibilities include quantitation of carotenoids and other secondary metabolites in plants using HPLC or other appropriate methods. Additional duties include analytical methods development, performance and development of enzyme activity assays, and utilization of analytical techniques to quantify proteins. Requires a BS/MS degree with 3-5 years related experience in Analytical Chemistry, Biochemistry, Biological Sciences or Plant Sciences. Solid computer skills and knowledge of HPLC, Western blots, and ELISA analysis are essential. A strong analytical background is preferred.

### NUTRITION/PLANT MOLECULAR BIOLOGY

We are seeking experienced Research Associates to join our teams in each of the following areas: Oil Modification, Animal Nutrition and Viral Resistance. Successful candidates will support their assigned teams by developing constructs for expression in plants and characterizing resulting transgenic plants. This could include enzyme assays, Westerns, Southern, PCR, and genetic characterization of crosses. Requires a BS/MS in Biochemistry, Molecular Biology, Genetics, Plant Physiology or related field along with proficiency in molecular biology techniques (cloning, RNA isolation, PCR) and related lab techniques. 3-5 years experience in plant research is preferred.

Calgene is proud to offer competitive wages and a comprehensive benefits package. For immediate consideration, send your letter of interest and resume to Calgene, Inc., 1920 Fifth St., Davis, CA 95616, Attn: Human Resources; or Fax it to (916) 753-1510. Visit our website at [www.calgene.com](http://www.calgene.com). EOE M/F/D/V



CALGENE

Mitotix is a biotechnology company developing cell-cycle based biotherapeutics for cancer, cardiovascular and infectious diseases.

## COMPUTATIONAL CHEMISTRY SCIENTIST

This position requires a Ph.D. in Computational Chemistry. Job responsibilities will include the support of our medicinal and combinatorial chemistry groups. Knowledge of molecular diversity analysis, clustering techniques, QSAR, and 3D database searching will be very important. Experience in the conformational analysis and pharmacophoric mapping of small molecules is essential.

Mitotix offers competitive salaries, benefits and a chance to work in an exciting scientific environment. Please send resume to: Human Resources, Mitotix, Inc., Job Code: CC98, One Kendall Sq., Bldg. 600, Cambridge, MA 02139; [www.mitotix.com](http://www.mitotix.com) EOE.



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## MAYO CLINIC POSTDOCTORAL POSITION

Postdoctoral position is available immediately with an active group investigating the T cell response to peptides encoded by Theiler's virus. The central focus of this research effort is the identification of virally encoded peptides that are recognized by cytolytic T lymphocytes and the roles played by these peptides in inducing resistance to demyelination in a mouse model of multiple sclerosis. A Ph.D., M.D., or D.V.M. degree is required and experience in *in vitro* assays of cellular immunology and basic methods of molecular biology is preferable. Send a curriculum vitae, description of research experience, and the names and addresses of three references to:

Dr. Peter J. Wettstein  
([wettstein@mayo.edu](mailto:wettstein@mayo.edu))

or

Dr. Moses Rodriguez  
([redriguez@mayo.edu](mailto:redriguez@mayo.edu))  
Department of Immunology

Mayo Clinic  
200 First St. SW  
Rochester, MN 55905

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

## Program Manager

Dynamac Corporation is searching for interested candidates for a Program Manager to direct a contract to provide "On-Site" professional and technical support to EPA's Western Ecology Division, located in Corvallis, OR. Services provided under this contract support a broad spectrum of Ecological and Environmental Sciences R&D.

This position requires 10 years' of experience in management of life-science research programs, combining experience in R&D and experience in managing cost reimbursable and fixed price government contracts. Candidates should also have competent knowledge of EPA regulatory and scientific research programs and the corresponding enabling legislation, as well as excellent written and oral communication skills. A B.S. degree is required. An advanced degree in environmental or life sciences is preferred. An M.B.A. is desirable.

Dynamac Corporation, an environmental sciences and engineering company, provides advanced technology, research support and information-driven decision-making services to assist clients in meeting evolving environmental management responsibilities.

To apply: Reference PM-JS, and fax your resume to, Fax: (301) 417-9801, Dynamac Corporation, 2275 Research Blvd., Rockville, MD 20850. [www.dynamac.com](http://www.dynamac.com)

**DYNAMAC**  
CORPORATION  
Environmental Services

EEO  
M/F/D/V



St. Jude Children's  
Research Hospital

ALBAC - Danny Thomas, Founder

## POSTDOCTORAL POSITIONS IN CELL CYCLE/CELL DEATH

Postdoctoral positions are now available for NIH funded research programs investigating novel alterations of cell cycle and apoptotic signaling pathways in human tumors as well as determining the role of CDK-related protein kinases in cell death (Lahti et al. *Mol Cell Biol* 15:1-11, 1995; Beyaert et al. *J Biol Chem* 272:11694-11697, 1997). Specific defects in the FasR-mediated cell death and cyclin D/CDK/INK pathways in neuroblastoma are being investigated in one project, while the role of phosphorylation/caspase processing of PITSRE protein kinases during Fas-mediated apoptosis is being investigated in the second project. Candidates should have training and experience in molecular and cellular techniques, and familiarity with cell cycle/cell death is an advantage. Send a curriculum vitae and three letters of reference to:

Dr. Vincent Kidd  
Department of Tumor Cell Biology  
St. Jude Children's Research Hospital  
332 N. Lauderdale  
Memphis, TN 38105



Novartis Seeds, Inc., a leader in research, production and marketing of field and horticultural crop seeds, is expanding its biotech research in sugarbeet, vegetable, wheat, barley and corn transformation. We are seeking motivated individuals to join us at our Seeds Biotechnology Unit located in Research Triangle Park in the heart of beautiful North Carolina.

### SUGARBEET TRANSFORMATION

Multiple positions are available. Qualified senior level scientist candidates should have a Ph.D. degree with a minimum of 3 years of experience in sugarbeet transformation, and should have demonstrated leadership skills on a project team as well as possess superior analytical, problem-solving and organizational abilities. Familiarity with molecular biology related to gene expression and *in vitro* cell biology are essential. Excellent communication and interpersonal skills are also required. Qualified junior level scientist candidates should have a B.S. or M.S. degree with a minimum of 3 years of experience in conducting sugarbeet transformation research. Successful candidates are expected to work closely with our colleagues at Novartis Seeds in Landskrona, Sweden and Longmont, Colorado.

### CEREAL TRANSFORMATION

Multiple positions are available. Qualified senior level scientist candidates should have a Ph.D. degree with a minimum of 3 years experience in wheat and/or barley transformation, and should have demonstrated leadership skills on a project team as well as possess superior analytical, problem-solving and organizational abilities. Familiarity with molecular biology related to gene expression and *in vitro* cell biology are essential. Excellent communication and interpersonal skills are also required. Qualified junior level scientist candidates should have a B.S. or M.S. degree with a minimum of 3 years of experience in *Agrobacterium* or particle-mediated transformation. Preference will be given to candidates with experience in monocot transformation. Successful candidates are expected to join an experienced team which has conducted the world's first transgenic wheat field test and work closely with our colleagues at New Farm Crops in Cambridge, UK and Novartis Seeds in Bay, Arkansas.

### CORN TRANSFORMATION

Multiple positions are available. Qualified candidates should have a M.S. or Ph.D. degree with a minimum of 3 years of experience in corn transformation. Experience with *Agrobacterium* or particle-mediated transformation is essential. Successful candidates are expected to join an excellent corn transformation group that generated *Maximizer*-the first commercially available transgenic *Bt* corn.

### VEGETABLE TRANSFORMATION

A senior position is available as of January 1, 1998. The qualified candidate must have excellent communication skills, supervisory experience, and the ability to work well in an international team-based research atmosphere. A Ph.D. in Biological Sciences or related field and at least three years experience in plant transformation are required. Preference will be given to individuals with significant hands-on experience with *Agrobacterium*-mediated transformation of dicot species, particularly cucurbit crops. In addition, the successful candidate should have demonstrated leadership skills within project teams and provide superior analytical, problem-solving and organizational abilities. Familiarity with molecular biology related to gene expression and *in vitro* cell biology are essential competencies. A junior scientist position is available as of January 1, 1998. The qualified candidate must have a B.S. or M.S. degree in Biological Sciences or related field and at least two years experience in plant transformation. Preference will be given to individuals with significant hands-on experience with *Agrobacterium*-mediated transformation of dicot species. Familiarity with molecular biology related to gene expression and *in vitro* cell biology are a plus. Qualified candidates are expected to work closely with our colleagues at Novartis Seeds in Gilroy, California, Nampa, Idaho and Enkhuizen, The Netherlands.

Novartis Seeds, Inc., offers a competitive compensation package commensurate with the qualifications and experience of the successful candidate, and a stimulating and challenging work environment. Qualified candidates should forward a resume and cover letter and the names of three references to: Novartis Seeds, Inc., Seeds Biotechnology Research Unit, Human Resources, PO Box 12257, Research Triangle Park, NC 27709-2257, USA. Novartis Seeds, Inc. is an Equal Opportunity Employer.





## Chairperson Department of Biology, Syracuse University

Nominations and applications are invited for the position of Chairperson of the Department of Biology at Syracuse University. The Department of Biology is strongly committed to excellence in research and teaching. Faculty research interests include cell/molecular biology, biochemistry, ecology, and evolutionary biology. The Chair is the chief administrative officer of the Department, with overall responsibility for faculty recruitment, budget, the graduate program, and undergraduate instruction. The new Chair will play a leading role in the development of the research and teaching programs in the department, especially in the recruitment of a number of new faculty members in the near future. The applicant should have an earned doctorate, an outstanding record in research accomplishments, experience in undergraduate and graduate education, and demonstrated leadership.

Anticipated starting date is July 1, 1999. Screening of applications will begin in late February, 1998 and continue until the position is filled. Application materials should include a full curriculum vitae and a statement of philosophy of leadership and vision of development for the department, as well as the names, addresses, telephone numbers, and E-mail addresses of five individuals willing to write letters of reference. All materials should be sent to **Dr. Shozo Yokoyama, Search Committee Chair, Department of Biology, Syracuse University, 130 College Place, Syracuse, New York 13244-1220**. Syracuse University is an equal opportunity employer. Women and members of other traditionally underrepresented groups are encouraged to apply.

## UNIVERSITY OF HAWAII AT MANOA DIRECTOR, INSTITUTE FOR ASTRONOMY

The University of Hawai'i at Manoa solicits applications for the position of Director, Institute for Astronomy. The Institute is headquartered on the Manoa campus of the University, in Honolulu, and operates observational facilities on Haleakala (altitude 10,000 feet = 3050 m, on Maui) and on Mauna Kea (altitude 13,800 feet = 4215 m, on the Big Island of Hawai'i). The Institute staff totals about 180, including 48 faculty. The Director has responsibility for the health and development of the research program of the Institute, for operation of the University's observational facilities, and for liaison with and support of other organizations sited on Haleakala and Mauna Kea. The Director represents the scientific concerns of the University of Hawai'i in discussions with other astronomical groups interested in Hawai'i, prepares and presents testimony to Legislative committees, and is responsible to the University for providing leadership with respect to the use of Haleakala and Mauna Kea for astronomical purposes.

The Director interacts with the media and environmental groups on issues involving Haleakala and Mauna Kea. A Ph.D. in Astronomy, Physics, or related discipline, and attainment of professorial rank or comparable professional experience prior to appointment is required. Applicants must have a distinguished record of personal achievement in astronomical research; extensive experience in working with funding agencies; a demonstrated ability for administration of scientific research programs; an ability to work effectively with, and to command the respect of, faculty, administrators, and external agencies. Experience in working within a multi-institutional and multi-national scientific environment is desirable. Applications, including the names of at least three persons from whom professional references can be obtained, should be sent to: **Chair, Ifa Search Committee, 105 Bachman Hall, University of Hawai'i, 2444 Dole Street, Honolulu, HI 96822**. Applications will be accepted through March 2, 1998. The successful applicant will be encouraged to take up his/her post in fall 1998 or as soon thereafter as practicable.

Further details may be obtained from **Dr. Robert McLaren, Interim Director of the Ifa (808-956-8566)**, or **Dr. George Herbig, Chair of the Search Committee (808-956-8573)**. *The University of Hawai'i is an Equal Opportunity/Affirmative Action Institution.*

## GRADUATE PROGRAM

### Graduate Program in Biochemistry



### University of Tennessee, Memphis St. Jude Children's Research Hospital

Applications are invited to the PhD Graduate Program in Biochemistry. The Program combines the strengths of both the University of Tennessee, Memphis and St. Jude Children's Research Hospital. Competitive stipends are provided along with tuition waivers. Both institutions provide students with an outstanding opportunity to perform cutting-edge research in a variety of topics. Examples of the major research areas include:

<b>Signal Transduction</b>	<b>Cancer Genetics</b>
<b>Molecular Biology</b>	<b>Enzymology</b>
<b>Structural Biology</b>	<b>Cell Biology</b>

For further information about the program, contact: Director of Admissions, Graduate Program in Biochemistry, University of Tennessee, Memphis, TN 38163. Tel: (901) 448-6150, Fax: (901) 448-7360, E-mail: [pyuen@am.utmem.edu](mailto:pyuen@am.utmem.edu). Applications for Fall semester are due March 1 and can be filed on the world wide web: <http://www.utmem.edu/admiss/application.html>. UT Memphis and St. Jude are Equal Opportunity/Affirmative Action Institutions.

## FACULTY POSITIONS MICROBIOLOGY AND MOLECULAR GENETICS

Applications are invited for tenure-track Assistant Professorships at the **Medical College of Wisconsin**. Virologists, particularly those investigating pathogen/immune system interactions, and yeast geneticists, particularly those investigating chromosome replication, repair or segregation, are especially encouraged to apply. Outstanding applicants of higher rank will also be considered.

The Department is under new leadership and entering a period of invigoration and expansion. This growth is occurring in the context of college-wide initiatives in human and molecular genetics, cellular/molecular neuroscience, signal transduction, and cancer research.

The successful applicant will join a group of interactive and successful investigators and will be expected to establish a strong, independent research program and participate in graduate and medical student teaching. Competitive salary support, start-up funds and renovated laboratory space will be provided; state-of-the-art core facilities are available. A PhD and/or MD degree and post-doctoral experience are essential. Applicants should submit their curriculum vitae, statement of research interests, and the names of three references by March 1, 1998 to: **Dr. Paula Traktman, Chairman, Department of Microbiology, Medical College of Wisconsin, 8701 Watertown Plank Rd., Milwaukee, WI 53226. E-mail: [ptrakt@mcw.edu](mailto:ptrakt@mcw.edu). Internet: <http://www.mcw.edu/microbiology>. EEO/AA/M/F/D/V**





## ***ALBERT EINSTEIN WORKED FOR US. WILL YOU?***

Under contract to the Defense Department during WWII, Albert Einstein submitted ideas to us for attaching mines to enemy ships. None of his submissions were feasible.

At the Dahlgren Division of the Naval Surface Warfare Center, our civilian scientists and engineers are free to explore beyond the known boundaries of technology, just as Dr. Einstein did.

Supplied with the latest equipment and surrounded by experts in advanced scientific fields, new engineers and scientists take on demanding research and development projects that will define surface warfare systems for the next century.

The Dahlgren Division offers its civilian employees a flexible work schedule, competitive salaries and generous benefits in an informal workplace.

Our commitment to life long learning is reflected in the large number of graduate level engineering and science courses taught on the base, as well as other opportunities to pursue advanced education.

We are located in a small town in the beautiful tidewater area of Virginia's Northern Neck, with a myriad of outdoor recreational opportunities. Just 50 miles away, metropolitan Washington, DC, offers exciting concerts, clubs and special events.

We are looking for entry level scientists and engineers in several different fields. Student employment opportunities are also available. US citizenship is required. To apply, email your resume to [recruit@nswc.navy.mil](mailto:recruit@nswc.navy.mil), subj: College Recruit. Submit in ASCII format.

Or, mail your resume and transcript to College Recruiting Coordinator, Human Resources Department, Dahlgren Division, Naval Surface Warfare Center, 17320 Dahlgren Road, Dahlgren, VA, 22448-5100.

Questions? Call Vicki Warner at 800-352-7967, email to address above or visit our web site at [www/nswc.navy.mil/P/RECRUIT/recruitl.html](http://www/nswc.navy.mil/P/RECRUIT/recruitl.html).

Other employment opportunities may be available at other locations of the Coastal Systems Station or the Naval Sea Systems Command. For information, visit our web site.



The Dahlgren Division is an  
equal opportunity employer.



### STAFF SCIENTISTS

The Health Effects Institute (HEI) has immediate openings for two staff scientists. These are two-year appointments with possibilities for renewal. General qualifications include excellent organizational skills and an ability to communicate technical information to the scientific community and the general public. Specific positions are described below.

#### Epidemiologist/Biostatistician

HEI is seeking a scientist with expertise in epidemiology and/or biostatistics to participate in the evaluation and management of population-based studies of the health effects of air pollution and to work with HEI staff on a wide range of projects. Applicants must have a doctoral degree in either epidemiology or biostatistics and postdoctoral experience. Preference will be given to applicants with demonstrated experience in environmental and/or occupational epidemiology.

#### Exposure Specialist/Environmental Scientist

HEI wishes to engage a scientist with expertise in exposure assessment or other aspects of environmental science to work with HEI and other scientists in developing, coordinating, and overseeing a funded research program on exposure to and the health effects of air pollution. Applicants should have a doctoral degree and research experience; applicants with a Master's degree and extensive research experience will also be considered.

HEI is a nonprofit organization that serves as an independent and impartial source of information on the health effects of air pollution. It is jointly sponsored by the U.S. Environmental Protection Agency and industry. For further information about HEI, the website address is: <http://www.healtheffects.org>.

Please respond by sending curriculum vitae with a cover letter specifying the position being applied for to: **Personnel, Health Effects Institute, 955 Massachusetts Avenue, Cambridge, MA 02139.** An Affirmative Action/Equal Opportunity Employer.



The Health Effects Institute



Agricultural  
Research  
Service

### U.S. Department of Agriculture (USDA) Agricultural Research Service (ARS) LABORATORY DIRECTOR GS-14/15

The USDA, Agricultural Research Service (ARS), is seeking a highly motivated and articulate research scientist to serve as Laboratory Director, and provide vision and leadership, to the ARS Appalachian Fruit Research Station, Kearneysville, WV. The mission of the Station is to identify and solve critical problems of temperate fruit production, protection, harvesting, and sorting needed to maximize productivity, cost efficiency, and fruit quality, while minimizing adverse environmental effects. This position will require the experience and willingness to interact closely with other scientists, and a demonstrated ability to conduct research. The successful candidate must have demonstrated supervisory skills, and the ability to work in a collaborative environment. Strong interpersonal and communication skills are a must. The incumbent will have the responsibility to shape, manage, and participate in research programs involving 17 senior scientists, a modern, well-equipped research laboratory and greenhouse facility, and a 550-acre research orchard. Professional experience is required in Horticulture, Entomology, Plant Physiology, Plant Pathology, and/or Agricultural Engineering. Competitive salary and benefits package. Ph.D. is desirable. *Candidate must be a U.S. citizen.* For further information on research programs contact **Wilda H. Martinez** at 215-233-6593. For application information and forms contact **Janie E. Carr** at 301-344-4569. Applications must be postmarked by January 30, 1998. *USDA/ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*

### Teaching Position in Immunology Department of Molecular and Cell Biology

**University of California at Berkeley**  
The Division of Immunology of the Department of Molecular and Cell Biology invites applications for a non-ladder faculty position (full-time or part-time) to begin July 1, 1998, to teach undergraduate lecture and/or laboratory courses in molecular immunology. This is a one-year position with possibility of renewal. Title and salary commensurate with qualifications and experience. Minimum qualifications include a Ph.D. degree and at least two semesters of teaching experience at the college level. Preference will be given to candidates with teaching experience in immunology, but candidates from related specialties will be considered. Position will be open until filled, but review of applications will begin February 16, 1998. Please submit a curriculum vitae, summary of teaching experience and interests, and the names and telephone numbers of 3 references to:

**Dr. Ann H. Good**

**University of California at Berkeley  
MCB LSA ASU**

**142 Life Sciences Addition #3200  
Berkeley, CA 94720-3200**

**E-mail: [good@socrates.berkeley.edu](mailto:good@socrates.berkeley.edu)**

**Telephone: (510) 642-0671**

**FAX: (510) 643-9096**

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

## Research the Possibilities

### Postdoctoral Fellow

The Lindsley F. Kimball Research Institute, a division of the New York Blood Center, is currently seeking dynamic, dedicated research professionals to join the Membrane Biochemistry Laboratory to work with Dr. Soohie Lee.

For this opportunity, we are seeking a bright, detail-oriented recent Ph.D. in Biological Sciences to study surface antigens of hematopoietic precursor cells. Your research and studies will require cell sorting, cell culture, flow cytometry, immunofluorescence microscopy, immunocytochemistry, and some molecular biology background.

We offer a competitive salary and an excellent benefits package. For immediate consideration, please fax (212) 570-3195 or send your resume to: HR Dept-MK, New York Blood Center, 310 East 67th Street, NY, NY 10021. EOE M/F/D/V

**Lindsley F. Kimball**

**Research Institute**

*A Division of the New York Blood Center*

### POSTDOCTORAL FELLOWSHIP

A Postdoctoral position is available in the Cellular Growth Mechanisms Group under the supervision of **Dr. Deborah Morrison**, at the ABL-Basic Research Program. Applications are sought from individuals interested in studying the regulation of proteins involved in mammalian and *Drosophila* signal transduction pathways. Candidates with strong backgrounds in protein biochemistry or *Drosophila* genetics are encouraged to apply.

The ABL-Basic Research Program, located at the NCI-Frederick Cancer Research and Development Center, Frederick, Maryland (45 miles north of Washington, DC) offers competitive Postdoctoral stipends, a full complement of benefits, and an excellent work environment. Interested applicants should send a CV, an introductory letter containing a brief description of research experience and contact information for three references to:

**Human Resources Department/CGM  
ABL-Basic Research Program  
NCI-FCRDC  
P.O. Box B, Building 428  
Frederick, MD 21702-1201**

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





**Director**  
**Clinical Pathology Department**  
 (Supervisory Medical Officer GS-15)  
**Advertisement Period:**  
**January 12–March 16, 1998**

#### Summary of Duties:

Directs the Clinical Pathology Department of the Warren Grant Magnuson Clinical Center of the NIH. Maintains oversight of clinical pathology services (including Chemistry, Hematology, Immunology, Microbiology, Phlebotomy) provided throughout the Clinical Center and will take responsibility for development of a new molecular diagnostics section, has direct responsibility for the planning and management of all clinical laboratory procedures, coordination of departmental research and development and coordination of clinical fellowship programs in the department. Collaborates with Institute scientist in research projects that involve the clinical laboratory. Special Institute interests include molecular diagnostics, genetics and their application to clinical research and clinical medicine. Opportunity also exists to consult or direct research designed in the clinical laboratory sciences.

#### Basic Requirements:

Degree of Doctor of Medicine or Doctor of Osteopathy from a school in the United States or Canada approved by a recognized accredited body in the year of the applicant's graduation. (A Doctor of Medicine or equivalent degree from a foreign medical school that provided education and medical knowledge substantially equivalent to accredited schools in the United States may be demonstrated by permanent certification by the Education Commission for Foreign Medical Graduates (ECFMG).) Candidates must have a permanent, full, and unrestricted license to practice medicine in a State, District of Columbia, the Commonwealth of Puerto Rico, or a territory of the United States.

**Qualification:** Must be qualified to serve as a Laboratory Director under CLIA.

Salary is commensurate with experience and level of accomplishments. A Recruitment Bonus of up to 25% of base pay or a Relocation Bonus of up to 25% of base pay may be available.

Specific application procedures apply. Contact **Barbara Lang, 301-496-6924** for more information. Applications must be received or postmarked by March 16, 1998. *NIH is an Equal Opportunity Employer. U.S. citizenship is required.*

Notice to displaced and surplus Federal employees: you must submit specific information as proof of eligibility for special selection priority. Call **301-496-6924** for more information.



**St. Jude Children's  
 Research Hospital**

ALSAC • Danny Thomas, Founder

## POSTDOCTORAL POSITION SIGNAL TRANSDUCTION BY NEUROPEPTIDE RECEPTORS

A National Cancer Institute-funded postdoctoral position is available to participate in studies on signal transduction pathways activated by G protein-coupled neuropeptide receptors in brain tumors. The role of substance P and bombesin-like neuropeptide receptors in enhancing the growth of astroglial brain tumor-derived cells is being investigated using biochemical, pharmacological, and molecular approaches (see: *Cancer Research* 56: 4983-4991, 1996; *Cellular Pharmacology* 3: 441-449, 1996; *Molecular and Cellular Endocrinology* 130: 119-130, 1997; *International Journal of Oncology* 11: 797-805, 1997; *Cell Growth and Differentiation* 8: 1225-1240, 1997; *International Journal of Oncology* 12: In press, 1998). Candidates should have a strong research experience and a **recent** Ph.D. in Molecular Biology, Cell Biology, Neuroscience, or related fields. Interest in signal transduction and brain tumor biology is a plus.

St. Jude Children's Research Hospital (Danny Thomas, Founder) is an outstanding research center for biomedical research and provides an exceptional environment for scientific achievement and career development. Stipend and benefits are highly competitive. Send a summary of research accomplishments (including copies of publications), curriculum vitae, and **three** letters of reference to: M. Sharif, Ph.D., Department of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105.

Last date for receiving applications is three weeks after the appearance of this advertisement.

An Equal Opportunity/Affirmative Action Employer

### HUMAN ANATOMY

The Department of Biology at Virginia Commonwealth University invites applications for a collateral faculty position to teach human anatomy. This is a non-tenure-track, annually renewable position at the rank of Instructor. Teaching responsibilities will include lecture and dissection laboratories of basic human anatomy for pre-health science students and possibly biomedical engineering students. Minimum M.S. degree and experience in teaching anatomy required; ability to develop and use instructional technology in anatomy courses is a plus.

Virginia Commonwealth University has an enrollment of 22,000 students, 900 biology majors, and 850 pre-health science majors. The Biology department has 26 faculty members. Submit curriculum vitae, statement of teaching experiences and philosophy, and names of three references by February 20, 1998 to: **Virginia Commonwealth University, Department of Biology, ATTN: Stephanie Millican, Richmond, VA 23284-2012.**

*Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Institution. Women, minorities, and persons with disability are encouraged to apply.*

### Scientific Applications, Marketing Specialist

**Axon Instruments, Inc.**, the leader in providing solutions for electrophysiology and imaging, seeks candidates to join our Marketing and Scientific Applications department. The MSA Scientist will provide application solutions to the scientific community, troubleshoot complex technical problems, and develop and promote our products.

**Requirements:** Ph.D. in electrophysiology, biophysics, or physiology. Experience with cellular electrophysiology, imaging and single-channel analysis desirable. Must possess excellent verbal communication and writing skills.

Please send resume to:  
**Cliff Christian, Ph.D.**  
**MSA Dept.**

**Axon Instruments, Inc.**  
 1101 Chess Drive, Foster City, CA 94404, USA  
 Phone (415) 571-9400 Fax (415) 571-9500

e-mail: [cliffc@axonet.com](mailto:cliffc@axonet.com)

AA/EOE

## ASSISTANT/ASSOCIATE PROFESSOR Plant Molecular Biology/Biotechnology Laboratory The University of British Columbia

The Biotechnology Laboratory invites applications for a tenure-track faculty position at the level of Assistant or Associate Professor in the area of plant and forest Biology.

The Biotechnology Laboratory is an interdisciplinary facility established ten years ago at the University of British Columbia by Nobel Laureate Michael Smith. Its mandate is to foster the development of biotechnology through an interactive approach to problems in human, animal, plant and forest biology and in fermentation and process engineering using modern techniques of genetics and molecular and cellular biology. There are currently ten faculty members conducting research in the Biotechnology Laboratory with 52 graduate students drawn from ten different academic departments.

The successful candidate will be expected to establish a vigorous research program in plant molecular genetics, with emphasis on forestry. Potential research areas include, but are not restricted to genomics, developmental genetics, somatic cell genetics, disease/insect resistance and genetic engineering. Investigators with experience in model plant systems and an interest in forestry are encouraged to apply. He/she will have cross appointments in forestry and/or plant science and will be expected to participate in the education of students at the undergraduate and/or graduate level.

There are many opportunities for collaboration with other members of the Biotechnology Laboratory or other units on campus. Several Networks of Centres of Excellence are represented at the University and a new Genomic Sequencing Centre has just been established in Vancouver. The successful applicant will assume a laboratory completely equipped for molecular genetics and cell biology, will have access to state-of-the-art facilities for a wide range of studies in biotechnology and will play an integral role in maintaining and expanding the University's strength in plant and forest molecular genetics.

Screening of applicants will begin **February 1, 1998**, and continue until the appointment is filled. Candidates should provide a bibliography, a current curriculum vitae, a description of proposed research and interests, and the names and addresses of three referees to **Dr. Douglas G. Kilburn, Director** at:



The Biotechnology Laboratory  
University of British Columbia  
6174 University Blvd., Rm. 237,  
Vancouver, B.C. Canada V6T 1Z3  
Fax: (604) 822-2114

UBC hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. In accordance with Canadian immigration policy, priority will be given to Canadian citizens and permanent residents.



## THE J. DAVID GLADSTONE INSTITUTES University of California, San Francisco

### POSTDOCTORAL FELLOWSHIP

**Dr. Robert Pitas & Dr. Robert Mahley**  
Study the molecular basis for the impact of apolipoprotein E4 on neurite outgrowth and Alzheimer's disease. A combination of *in vitro* studies and studies with transgenic models will be used to examine the mechanism for the contribution of apolipoprotein E4 to Alzheimer's disease. Molecular biology experience desirable. Candidates should possess an M.D. or Ph.D. in neurobiology or a related area. Job #C97-057.

Please send CV and references to:  
# C97-057, Gladstone Institutes, P.O. Box  
419100, San Francisco, CA 94141;  
or fax to (415) 431-4039.  
Email: [hr@gladstone.ucsf.edu](mailto:hr@gladstone.ucsf.edu)  
Web: <http://gladstone.ucsf.edu>

**Equal Opportunity/Affirmative Action  
Employer**

## IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY

### Director, Office of Intellectual Property and Technology Transfer Executive Director, Iowa State University Research Foundation (ISURF) (dual appointment)

The university is seeking candidates to fill this position that leads a unit responsible for managing the regulatory process for commercializing new technology arising from university research programs. The director manages an annual budget of about \$3 million and a staff of nine professionals. ISURF, started in 1938, has a history of intellectual property management resulting in a significant endowment fund to support year-to-year fluctuations in income. For more information, see [www.iastate.edu/~isurf/](http://www.iastate.edu/~isurf/)

Iowa State University is located in Ames, Iowa, a community of 50,000 residents recently ranked the second most livable small city in the nation.

The successful candidate must have at least three years' experience in the commercialization of technology within industry, as well as graduate study and/or work experience within a research university. Preferred qualifications include a Ph.D. in a technical or related field, broad experience in commercialization of science and technology, a comprehensive understanding of the commercialization process, and current experience as a member of the Licensing Executives Society or a similar organization.

Applications should include a letter, a complete curriculum vitae, and the names and telephone numbers of five references and be sent to: Chair, Search Committee, Vice Provost for Research, 211 Beardshear Hall, Iowa State University, Ames, Iowa 50011.  
E-mail: [jspicke@iastate.edu](mailto:jspicke@iastate.edu); fax: 515-294-6100. Review of applications begins February 28, 1998 and will continue until the position is filled.

Iowa State University is an equal opportunity, affirmative action employer. Women and members of minority groups are strongly encouraged to apply.



## RICE UNIVERSITY Director Office of Technology Transfer

Rice University is committed to the commercialization of technology and seeks to appoint an individual to direct and manage the technology transfer activities of the University.

Already a nationally recognized leader in several areas of science and technology, Rice has underway several initiatives that will provide the opportunity for increased commercialization of University technologies. These include recently constructed research buildings and faculty recruitment in the areas of computational engineering, bioengineering, biotechnology, telecommunications, computer information and technologies, and nanoscale science and technology.

The Director will work with faculty to identify and evaluate University technologies in the biological and physical sciences and engineering for commercial viability. A major responsibility will be the identification of companies with an interest to invest in University technology through licensing agreements and support of University research. Specific responsibilities include:

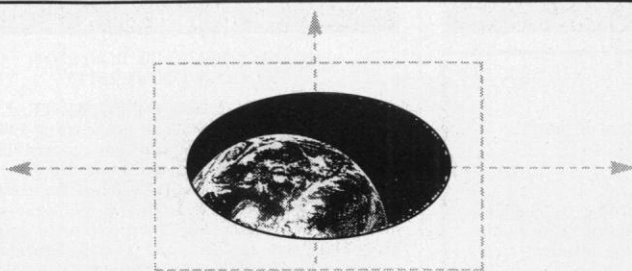
- Evaluating inventions for patentability
- Evaluating markets for the commercialization of patents, software, databases, and similar products and identifying potential licensees
- Developing business relationships based on University technologies
- Attracting venture capital for investment in new businesses based on university technology
- Drafting and negotiating license agreements
- Pursuing expanded relationships with the corporate sector and increasing faculty-industry linkages

Qualifications include: A technical background, ideally with a degree in a science or engineering field. At least 5-7 years working experience in patenting, licensing, and negotiation of contracts between universities, the corporate sector, and government. Working knowledge of engineering, the physical sciences and business as applied to technology assessment, intellectual property protection, and technology commercialization.

Candidates should send résumé and cover letter detailing qualifications to: **Technology Director Search, Office of the Vice Provost MS 13, Rice University, 6100 Main Street, Houston, Texas 77005.**

All inquiries will be maintained confidentially. Review of applications will begin February 15, 1998.

*Rice University is an Equal Opportunity, Affirmative Action Employer.*  
For more information on Rice University, see <http://www.rice.edu>.



**We're redefining the way the world looks at life sciences.**

**We're the new life sciences company at Monsanto.**

We're committed to answering the questions and meeting the demands of our ever-changing planet while redefining the way the world looks at life sciences. After all, the world's resources are finite, but our vision for the future is limitless. Currently we're seeking candidates for the following positions:

### **RESEARCH SCIENTIST (Job Code: RS)**

Our Atherosclerosis Group is exploring new mechanisms for therapeutic intervention in diseases of the vascular wall. To help accomplish this goal, we are seeking a highly motivated, innovative professional with experience in the development and application of validated animal models of vascular disease for evaluating drug candidates and performing concept tests associated with novel therapeutic mechanisms. The successful individual will initiate and support the discovery of new drugs, as well as lead an effort to build and develop the capabilities of the laboratory and associated personnel. We require a Ph.D., DVM or MD, as well as 3-5 years experience with a strong research background and a record of accomplishments in the use of animal models to study vascular disease. Preference will be given to those with experience in vascular surgery and histology. Excellent communication skills, both written and oral, as well as the ability to work well within a team environment required.

### **SENIOR RESEARCH INVESTIGATOR (Job Code: SRI)**

The selected individual will conduct basic and applied research in the area of Biochemical Toxicology in support of new drug development, as well as function as Study Director on in vivo and in vitro studies to investigate mechanisms of chemical toxicity. In addition, responsibilities will include participation in multidisciplinary teams involved with the discovery and development of new molecular entities in pharmaceutical, nutritional and agricultural related businesses. We require a Ph.D. in Pharmacology and Toxicology, as well as 2+ years postdoctoral training in Biochemical Toxicology with expertise in leading-edge enzymology and receptor binding methodologies. Excellent written, oral, and organizational skills, as well as the ability to work well within a team environment required. Experience in personnel management is preferred.

We offer a competitive compensation and benefits package. For consideration, please send/fax your resume and three references, to: **The Monsanto Company, Job Code: \_\_\_\_\_ (select from above), 700 Chesterfield Village Parkway, Mail Code: BB5B, Chesterfield, MO 63198. Fax: 314-737-6419.** EEO/AA Employer M/F/D/V. Please visit our website at [www.monsanto.com](http://www.monsanto.com).

# Monsanto

## THE BAYER FACTS:



**Bayer:**

**A premier healthcare company for the 21st century.**

Our business is to significantly improve health worldwide.

People are the heart of our company.

Our corporate culture inspires and commits all to do their best.

**Bayer** 

**Pharmaceutical Division**

## SCIENTIST

■ In the highly competitive global pharmaceutical marketplace, there are many "Bayer Facts" that distinguish us as a leader. To name a few, we are part of Bayer Corporation, a \$32 billion international diversified organization and one of the most broadly-based healthcare companies in the U.S. Our Pharmaceutical Division site in West Haven, CT has worldwide responsibility for the research and development of treatments for osteoporosis; cancer; diabetes and other metabolic disorders.

■ You will develop and implement procedures for the purification and functional characterization of tagged and un-tagged target proteins for high throughput screening and lead optimization. This will usually occur within critical timelines. Operating within a technology driven department you will be required to interact with a number of customers including disease area experts, the screening group and chemistry. You will remain informed on relevant new technologies and evaluate and implement them as required.

■ The team oriented individual must have a Ph.D. in Biochemistry or related field with postdoctoral or two years of proven experience. A proven track record in the purification and characterization of recombinant and natural proteins is a must. Industrial experience would be desirable, as would experience in the area of proteomics. Excellent verbal/written/presentation skills are essential.

■ Please forward your resume including salary history to: **Bayer Corporation, Pharmaceutical Division, Department HR-B25-LMPT, 400 Morgan Lane, West Haven, CT 06516.** No agencies or phone calls please. For more information on Bayer, search <http://www.careers.mosaic.com/cml/bayer/>

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■ We appreciate your interest in our company. Unfortunately, we will only be able to respond to those individuals chosen for interviews or additional follow-up.

## POSITIONS OPEN

### BIOPHYSICS/COMPUTATIONAL BIOLOGY NEW JERSEY INSTITUTE OF TECHNOLOGY RUTGERS UNIVERSITY-NEWARK

Applications are invited for a tenure-track faculty position in biophysics/computational biology in the newly formed Federated Department of Biological Sciences, a joint entity of the New Jersey Institute of Technology (NJIT) and Rutgers University. Preference will be given to individuals with research interests involving cell signaling and optical methods. Candidates are expected to have a Ph.D. in an appropriate biological discipline, and a strong record of research and publication. In addition, the successful candidate will have an opportunity to complement existing strengths in cell biology, mathematical biology, neuroscience, and optical applications in biophysics. Applications will be reviewed beginning February 15, 1998. Send curriculum vitae, a description of research and teaching interests, and three letters of recommendation to: **Dr. Edward G. Kirby, Chairman, Federated Department of Biological Sciences, Personnel Box BIO, New Jersey Institute of Technology, Newark, NJ 07102-1982. Website: <http://silb.rutgers.edu/>.** *New Jersey Institute of Technology and Rutgers University are Equal Opportunity Employers.*

### DEAN COLLEGE OF NATURAL RESOURCES University of Wisconsin-Stevens Point

Nominations and applications are invited for the position of Dean of the College of Natural Resources. The Dean is the chief administrator of the largest undergraduate natural resources program in the United States. For full consideration, applications should be received by March 15, 1998. Applications must be accompanied by a résumé with the names, addresses, and telephone numbers of at least five references. The successful candidate will begin the position in August, 1998, or as soon as possible thereafter. For a complete position description, contact: **M. S. Boyce, University of Wisconsin-Stevens Point, Room 202 Main Building, Stevens Point, WI 54481. E-mail: [mboyce@uwsp.edu](mailto:mboyce@uwsp.edu).** *The University of Wisconsin-Stevens Point is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN



THE UNIVERSITY OF IOWA

The Department of Neurology at The University of Iowa College of Medicine is recruiting new **FACULTY**. A distinctive research background and commitment to research career are essential. Appointees are expected to conduct an active program of neuroscientific investigation. Areas of special emphasis include movement disorders, epilepsy, neuroimmunology, neuromuscular disorders, pain, and neuroimaging. All faculty serve in full-time status. Successful candidates will have an M.D. and/or Ph.D.

Apply to: **Dr. Antonio R. Damasio, M.D., Professor and Head, Department of Neurology, The University of Iowa, 200 Hawkins Drive, Iowa City, IA 52242.**

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

### FACULTY POSITIONS

The Department of Health Sciences at East Tennessee State University seeks applicants for two tenure-track positions in microbiology at the **ASSISTANT PROFESSOR** level beginning in August 1998. The positions require teaching undergraduate and graduate courses in microbiology and development of a fundable research program. Ph.D. is required. University-level teaching experience is preferred. Screening of applicants will begin in February 1998. Salary will depend on qualifications and experience. Send curriculum vitae, a description of teaching/research interests, and the names of three references to: **Dr. Michael T. Gallagher, Professor and Chair, East Tennessee State University, Department of Health Sciences, Box 70673, Johnson City, TN 37614-0673.** *East Tennessee State University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### PHYSICS FACULTY POSITION INDIANA UNIVERSITY

Applications are invited for a **TENURE-TRACK** faculty position in physics, available in the fall of 1998. We seek outstanding candidates with demonstrated ability to initiate and lead a vigorous and innovative program of interdisciplinary experimental research at the interface of physics with chemistry and biology. We are especially interested in candidates with experience in scanning-probe and imaging methods and/or optical-trapping and manipulation techniques. An appointment at a more senior level could be considered for a truly exceptional candidate. Each application should include a curriculum vitae, a description of research interests and accomplishments, and a list of publications. Candidates should also have at least three letters of reference sent to: **Professor Alan Kostelecky, Chair, Attn: Faculty Search, Swain Hall West 117, Department of Physics, Indiana University, Bloomington, IN 47405 USA.** Applications received before March 15, 1998, may receive preference. *Indiana University is an Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITION BOSTON UNIVERSITY SCHOOL OF MEDICINE Department of Ophthalmology

The Department of Ophthalmology, Boston University School of Medicine seeks an NIH-funded Laboratory Investigator for the study of retinal and retinal pigment epithelial lipid and protein metabolism in aging and macular degeneration. Immunocytochemistry experience is desirable. A Ph.D. and U.S. citizenship or permanent residency is required. This position is offered at the **ASSISTANT PROFESSOR** level although qualified applicants at the **ASSOCIATE PROFESSOR** and **FULL PROFESSOR** rank will be considered. Renovated laboratory space and supplemental salary support is available.

Please submit a letter of application, curriculum vitae, copies of selected publications, and names, addresses, and telephone numbers of three references to: **Dr. Robert Haimovici, Search Committee, Department of Ophthalmology, Boston University School of Medicine, 715 Albany Street, Boston, MA 02118-2526. Telephone: 617-638-4550.** *Equal Opportunity Employer.*

# WOMEN IN SCIENCE

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### FOR MORE INFORMATION:

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Tel: +44 (0) 1223 302067  
Fax: +44 (0) 1223 576208  
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**JAPAN:** Mashy Yoshikawa  
Tel: (+81) 3 3235-5961  
Fax: (+81) 3 3235-5852

**AUSTRALIA:** Keith Sandell  
Tel: (+61) 02 922-2977  
Fax: (+61) 02 922-1100



## MAYO CLINIC Postdoctoral Immunologist

The Department of Immunology, Mayo Clinic, is seeking applications for a Postdoctoral Immunologist with ample experience in cellular immunology, specifically in the area of T-lymphocytes and basic molecular biology techniques, to lead a research project for the development of novel immunotherapies for cancer.

The laboratory is headed by **Dr. Esteban Celis** in the Department of Immunology who is devoted to the identification of tumor-associated antigens, T-cell epitopes (cytotoxic and helper), and to the development of immunization strategies that overcome immune tolerance in the cancer setting. We are also developing adoptive cellular therapies for common types of cancer (breast, colon, and prostate) based on dendritic cell vaccination and T-cell therapy.

Applicants please forward curriculum vitae and direct inquiries to:

**Esteban Celis, M.D., Ph.D.**  
Mayo Clinic  
Department of Immunology  
200 First Street SW  
Rochester, MN 55905

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### Supervising Professional Environmental Scientist

The South Florida Water Management District seeks a senior-level scientist to provide strong scientific leadership and to participate in research-related activities in one or more of the following research disciplines; agro-ecology, with expertise in water quality issues; watershed ecology, especially as it relates to fate, transport, and cycling of phosphorus; or fisheries biology in large lakes. The successful applicant will work in a highly progressive professional environment utilizing a team approach to solve complex and challenging environmental problems at multiple scales. Experience in subtropical and/or estuarine ecosystems a plus. Minimum requirements include a Ph. D. in Environmental Science or related discipline, seven years of work experience, including two years supervision of a professional staff. For additional information, contact **Dr. Alan Steinman**; e-mail: [al.steinman@sfwmd.gov](mailto:al.steinman@sfwmd.gov) or visit our website: <http://www.sfwmd.gov>

The District offers extremely competitive salaries, excellent benefits, a smoke-free work place, and a sub-tropical environment. All new hires will be required to successfully complete a pre-placement drug test. For consideration, send your resume (including social security number) to:

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**POB 24680, West Palm Beach, FL 33416-4660**



### Chief

## Laboratory for Astronomy and Solar Physics

NASA's Goddard Space Flight Center invites applications for the position of Chief, Laboratory for Astronomy and Solar Physics.

The Chief is responsible for a broad program of experimental and theoretical research conducted by members and associates of the Laboratory in specific areas of space science. These areas include: the study of the Sun, comets, stars, the interstellar medium, stellar clusters, galaxies, galaxy clusters, and the early universe; the development of space astronomy instruments; and laboratory, data analytic, and theoretical investigations in support of astrophysical studies from space.

The Chief and members of the Laboratory may act as principal investigators, co-investigators, and project scientists on NASA space astronomy missions. Recent space astronomy missions which have involved substantial contributions from the Laboratory are the Cosmic Background Explorer (COBE), The Hubble Space Telescope (HST), and the Solar and Heliospheric Observatory (SOHO).

Desirable qualifications include a Ph.D. degree with extensive postgraduate research experience, as well as experience in the scientific and administrative management of research programs. The candidate should be a recognized authority in astronomy, astrophysics, and/or solar physics, and should possess demonstrated executive management abilities commensurate with the high level of management responsibilities of the position.

Compensation is currently in the range \$106,000 to \$122,000 per annum, including locality pay. Submit an OF 612, "Optional Application for Federal Employment" (or equivalent), a professional résumé, and a supplemental statement addressing the SES Executive Core Qualifications and the Technical Qualifications of the position.

Applications should be mailed to:

**Ms. Christina Reed**  
**Human Resources Operations Office, Code 113.8**  
**Office of Human Resources**  
**NASA's Goddard Space Flight Center**  
**Greenbelt, MD 20771.**

For more information about position requirements and application procedures, please call Ms. Reed at (301) 286-3729 or (301) 286-7918 (TDD).

In order to be guaranteed consideration, applications should be postmarked by February 28, 1998. *Equal Opportunity Employer. U.S. citizenship required.*

### Postdoctoral Positions

## Laboratory of Diagnostic Radiology Research National Institutes of Health

The Laboratory of Diagnostic Radiology Research (LDRR) at the NIH is seeking 2-3 postdoctoral fellows with either a background in MR physics, MR microscopy, or image processing to start in early 1998. LDRR operates a state-of-the-art 1.5 Tesla GE/SIGNA MRI unit and has access to 33cm bore 4.7 Tesla and 40 cm bore 2 Tesla animal units. In addition, LDRR has access to a wide variety of software programs and UNIX workstations.

One of the Laboratory's major focus is the development of new imaging/spectroscopic techniques with clinical applicability. LDRR's current research efforts are in the areas of Functional/Metabolic Imaging including: Proton Spectroscopic Imaging, and techniques for performing T2\* sensitive imaging for FMRI, MR microscopic imaging in various experimental and transgenic animal systems, and image processing. Research activities include the development of new MR pulse sequences, data fitting routines, image processing, and preclinical evaluation of novel contrast agents and directed therapies in experimental model systems.

Applicants should send your curriculum vitae, at least 3 letters of recommendation, and a statement of research interests to either **Dr. Joseph A. Frank** or **Dr. Jeff H. Duyn**.

**CC LDRR**  
**Building 10 Room B1N256**  
**10 Center Dr. MSC 1074**  
**Bethesda, MD 20892-1074**  
**Fax (301) 402-3216**  
**[jafrank@helix.nih.gov](mailto:jafrank@helix.nih.gov)**  
**[jhd@helix.nih.gov](mailto:jhd@helix.nih.gov)**

Salary is commensurate with level of experience.  
*NIH is an Equal Opportunity Employer.*



## POSITIONS OPEN

### TWO FACULTY POSITIONS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Department of Biochemistry and Molecular Biology is seeking to fill two tenure-track positions at the level of **ASSISTANT PROFESSOR**. The first position is for an individual with experience and potential in the area of protein biochemistry/biophysics. The successful candidate should have an earned Ph.D., demonstrated expertise in protein biophysics, and be able to interact with other scientists interested in protein structure-function. The second position is for an individual with experience in the area of biochemistry/molecular genetics of eukaryotic systems. The successful candidate should have demonstrated research strengths in an area of signal transduction, regulation of gene expression, or gene targeting and be willing to interact with scientists from many departments interested in plant and animal molecular genetics. The Department is located in a modern research building with well-equipped laboratories and a stimulating scientific environment. A state-of-the-art "core facility" is available to support research and teaching activities in recombinant DNA and proteins. A 600 MHz NMR spectrometer was recently installed in a nearby facility and will be available to those having need of high resolution NMR spectroscopy. Both positions are eleven-month appointments and carry approximately 75 percent research appointment and 25 percent teaching appointment. Successful candidates will be expected to have a commitment to research and teaching and to contribute to our graduate and undergraduate teaching programs. In addition, the successful candidates will be expected to develop independent, extramurally funded research programs. A competitive salary with adequate start-up funds and generous laboratory space are available. Review of applications will begin March 1, 1998, and continue until the positions are filled. Interested individuals should provide a letter of application, a current curriculum vitae, a statement of research interests, two representative reprints of past work, and three letters of recommendation to:

**Dr. Chang-An Yu**  
Chairman of the Search Committee  
Department of Biochemistry and Molecular Biology  
246 Noble Research Center  
Oklahoma State University  
Stillwater, OK 74078-3035  
E-mail: sheil@bioch.okstate.edu

*Oklahoma State University is an Equal Opportunity/Affirmative Action Employer.*

### UNIVERSITY OF FLORIDA

Seeks **ASSOCIATE PROFESSOR** and **CHIEF/PROFESSOR** and **CHIEF** for the Department of Medicine, Division of Gastroenterology, Hepatology, and Nutrition. M.D. degree, B.C. in internal medicine and gastroenterology, research experience. A Physician Investigator who has a well-established research program and who can direct the existing research training grant in gastroenterology is being sought. Existing program is well balanced in respect to providing excellent clinical care and performing both basic and clinical research. Qualified candidates should possess the abilities to lead and develop programs in research, education, and health care delivery. This is a tenure-track position. Salary and benefits commensurate with experience. Recruiting deadline: February 28, 1998. Anticipated starting date: July 1, 1998. Please submit curriculum vitae and other information to: **Dr. Frederick Southwick, Professor and Chief, Box 100277 JHMHC, Gainesville, FL 32610.** An Affirmative Action/Equal Opportunity Employer.

### EVOLUTIONARY PLANT BIOLOGIST

Tenure-track position at the **ASSISTANT PROFESSOR** level beginning August 1998 for a broadly trained Evolutionary Biologist with interests in the mechanisms of evolution in plants, and a commitment to teaching and research at an undergraduate institution. Candidates must have a Ph.D., and have the potential to develop a research program involving significant student participation. Major responsibilities include teaching an advanced course in plant biology, an introductory course in evolution and diversity, and academic advising. Applicants should send curriculum vitae, summary of research interests, and names and three letters of reference to: **Professor Thomas L. Koppenheffer, Chair, Department of Biology, Trinity University, San Antonio, TX 78212.** Application deadline is February 6th, 1998. *Women and minority candidates are strongly encouraged to apply. Trinity University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR DEPARTMENT OF BIOLOGY BALL STATE UNIVERSITY Muncie, Indiana

Tenure-track position available August 21, 1998, in cellular/molecular biology with expertise in the mechanisms of tumor development, signal transduction, and/or cell cycle control. Responsibilities include: commitment to excellence in teaching; teaching courses in introductory biology and upper-division/graduate courses in molecular biology and related areas; competency in current approaches used in the study of molecular biology; conduct research in specialty area and promote student involvement; be an active member of the academic community. Minimum qualifications: earned doctorate in a biological science by date of appointment; effective written and oral communication skills. Preferred qualifications: demonstrated teaching ability; postdoctoral experience; publications and/or evidence of other scholarly activity. Send letter of application, curriculum vitae, documentation of scholarly activity, transcripts, and three letters of reference to: **Chair, Cellular/Molecular Biology Search Committee, Department of Biology, Ball State University, Muncie, IN 47306.** Deadline for applications is February 17, 1998.

*Ball State University is an Equal Opportunity/Affirmative Action Employer and is strongly and actively committed to diversity within its community.*

### TWO TENURE-TRACK ASSISTANT PROFESSOR POSITIONS—FALL 1998 DEPARTMENT OF BIOLOGY University of Wisconsin—Stevens Point

**ANIMAL PHYSIOLOGIST.** Teaching responsibilities include a course in animal physiology for biology and natural resources students, a freshman animal biology course, and an upper-level course in area of specialty. Training, laboratory experience, and Ph.D. dissertation in animal physiology required. Broad training in zoology required.

**EVOLUTIONARY ANIMAL BIOLOGIST** in areas including, but not limited to, herpetology or entomology. Teaching responsibilities include courses in evolution and freshman biology. Ph.D. required, with specialization appropriate to instruction and research in evolutionary biology. Preference will be given to those with experience teaching introductory zoology courses.

Ph.D. preferred at time of hire. Additional responsibilities include student advising and establishment of a research program. Demonstrated ability to commitment to undergraduate teaching required. Research experience, publications, and a successful grant history are desirable.

Send letter of application, curriculum vitae, one-page statement of teaching goals and philosophy, three letters of recommendation, and copies of official undergraduate and graduate transcripts to: **Dr. Shelley Jansky, Chair, Department of Biology, University of Wisconsin-Stevens Point, Stevens Point, WI 54481.** Deadline for receipt of all application materials is February 20, 1998.

### ASSISTANT/ASSOCIATE PROFESSOR PHARMACOLOGY

The Department of Pharmaceutical Sciences at Drake University College of Pharmacy and Health Sciences invites applications for a tenure-track, faculty position at the Assistant or Associate Professor level. This position will be available August, 1998, subject to final budgetary approval. Applicants should possess a Ph.D. in pharmacology, or related discipline, with expertise in cellular/molecular techniques. A degree in pharmacy and postdoctoral experience are desirable, but not required. The candidate will be responsible for effective undergraduate teaching and development of an independent, fundable research program. Review of applications will begin immediately and will continue until a suitable candidate has been selected. Applicants should send their curriculum vitae, a brief statement of teaching experience, and the names of three references to: **R. P. Soltis, Ph.D., Department of Pharmaceutical Sciences, College of Pharmacy and Health Sciences, Drake University, Des Moines, IA 50311.** Equal Opportunity/Affirmative Action Employer. Applications from minorities and women are especially encouraged.

## POSITIONS OPEN

### FACULTY POSITION JOHNS HOPKINS UNIVERSITY

The Department of Earth and Planetary Sciences invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level beginning July 1, 1998, or later. We seek applicants in the area of geomicrobiology, particularly those with expertise both in the Earth sciences and in biochemistry or microbiology. Candidates should have research interests that include, but may not be limited to, the role of microorganisms in geological processes ranging from those at low temperature such as in the oceans and sediments to those at elevated temperature such as in oil fields and hot springs.

Applicants should have rigorous training in the geosciences and/or biosciences and broad process-oriented interests that would complement existing programs in the Department of Earth and Planetary Sciences and one or more of the Departments of Biology, Biophysics, and Geography and Environmental Engineering. Candidates whose research integrates combinations of field, laboratory, and theoretical approaches will be particularly favored. We expect successful applicants to develop a vigorous, independent research program and to participate fully in undergraduate and graduate teaching. A Ph.D. is required.

Interested persons should send a résumé, a couple of reprints or preprints, and a statement of research interests, plus the names, mail and e-mail addresses, and telephone numbers of at least three persons from whom the Department may request letters of recommendation to: **Dr. John M. Ferry, Chair, The Morton K. Blaustein Department of Earth and Planetary Sciences, Johns Hopkins University, Baltimore, MD 21218 USA.** The search will close March 1, 1998, but later applications may be considered. *Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are encouraged to apply.*

Wabash College invites applications for a **BYRON K. TRIPPE ASSISTANT PROFESSORSHIP** in developmental biology. Tenure-track position to start July 1, 1998. Ph.D. and a commitment to excellence in teaching required; teaching experience desirable. The Biology Department, with seven full-time positions, encompasses molecular biology, organismal biology, and population biology. The department is well equipped for teaching and research, and plans for a new science facility are in progress. In a two-year cycle, responsibilities include teaching a modern course in developmental biology, and either comparative anatomy and embryology or a course in the applicant's special area of expertise, and participating in team-taught general biology. Periodic contributions to all-college interdisciplinary courses are expected. Development of a research program involving undergraduates is expected. An endowed fund provides summer research stipend during the first two years, and start-up funds for research are available. Send letter of application, curriculum vitae, brief statement of research interests and teaching philosophy, and three letters of recommendation by February 16, 1998, to: **L. David Polley, Biology Department, Wabash College, P.O. Box 352, Crawfordsville, IN 47933-0352.** Questions may be directed to e-mail: [polleyl@wabash.edu](mailto:polleyl@wabash.edu). Information about the college and the department available at website: <http://www.wabash.edu>. *Wabash College, a liberal arts college for men, encourages applications from women and minorities. Equal Opportunity Employer.*

### MOLECULAR AND CELL BIOLOGY OF CANCER

A tenure-track position for an **ASSISTANT** or **ASSOCIATE PROFESSOR** is available in the Department of Microbiology and the Cancer Center at the University of Virginia Health Sciences Center. The Department of Microbiology has strengths in virology, immunology, molecular biology, and cell biology and the Cancer Center has an emphasis on translational research. Applicants may have a Ph.D. and/or M.D. and should have a demonstrated record of productivity in studies on the molecular and/or cell biology of cancer. The research environment at the University of Virginia encourages interactions between investigators and provides an opportunity for collaborative investigations which bridge disciplines or which interface between laboratory and clinical investigations. Please send curriculum vitae to: **Dr. Michael J. Weber, Chair, University of Virginia Molecular Oncology Search Committee, Box 441, Charlottesville, VA 22908.** The University of Virginia does not discriminate on the basis of race, sex, religion, or sexual preference.



**ASSOCIATE DIRECTOR COMPARATIVE MEDICINE**  
National Center for Research Resources  
National Institutes of Health

The National Center for Research Resources (NCRR) is seeking applicants for the position of Associate Director Comparative Medicine, National Center for Research Resources. This position is located in Bethesda, Maryland, and is a permanent full-time position with a salary range of \$103,897 to \$123,100 per annum commensurate with qualifications. Physicians may be eligible for Physician Comparability Allowance ranging from \$5,000 to \$20,000 per year.

A recruitment bonus of up to 25 percent of base pay may be available to a non-federal selectee for this position. A relocation bonus of up to 25 percent of base pay (subject to approval) may be available to a permanent Federal employee who must relocate to accept this position. A one year probationary period must be served by the individual selected if not currently or previously in the Senior Executive Service.

The Associate Director for Comparative Medicine, NCRR, manages a broad research and resources area related to Laboratory Animal Sciences, AIDS Animal Models, Regional Primate Research Centers, and Biological Models and Materials Resources. These programs provide support for sophisticated mammalian and non-mammalian resources, genetic repositories for animals, both vertebrate and invertebrate, microorganisms and cells. The program also supports post-doctoral training and career development for veterinarians. The ADCM has a continuing responsibility to match the Comparative Medicine area's research and resource scope and content with the needs of the biomedical research community, especially for investigators supported by other NIH components. This responsibility involves a multifaceted portfolio of sponsored activities which includes Regional Primate Research Centers, mammalian and non-mammalian model development, special types of research animal colony development and support, national repositories for induced mutants for rodents and other organisms as well as nonhuman primate breeding and research projects. The ADCM must provide the national scientific leadership for the planning, formulation, program review, development and evaluation of all activities which are encompassed by this area. Applicants for this Senior Executive Service position must have a Doctor of Veterinary Medicine or a Ph.D. in one of the health sciences (or equivalent combination of experience and training). Send applications to: Ms. Pathenia Wiggins, National Institutes of Health, National Center for Research Resources (NCRR), 9000 Rockville Pike, Building 31, Room 3B43, Bethesda, MD 20892. For application forms and a copy of the requirements contact Ms. Wiggins at NCRR on (301) 496-1524. Deadline for applications is March 15, 1998.

Public Health Service Commissioned Officers interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

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## DATABASE INFORMATICS: BIOLOGISTS

### THE JACKSON LABORATORY, BAR HARBOR, ME

Professional positions are available in the Informatics Programs at The Jackson Laboratory with the Mouse Genome Database, Gene Expression Resource and Tumor Biology Database for the laboratory mouse. Successful applicants will be primarily responsible for data acquisition and database maintenance, including literature searching, evaluating and analyzing data to be incorporated into the databases and interacting with research laboratories to facilitate electronic data contributions. In addition, they will participate in database and interface design work through input into database content and display concepts. Applicants should have experience with molecular biology or mammalian systems and be versed in developmental, cellular or tumor biology. Knowledge of genetics a plus. Other desirable attributes include writing/communication skills and experience using computers. MS degree in Life Sciences required.

The Jackson Laboratory, located on the coast of Maine on the fringe of Acadia National Park, is a world-renowned center and resource for mammalian biology and genetics.

Qualified candidates should send resume to:

The Jackson Laboratory  
Attn: Joanne C. Bradt, Employment Specialist  
600 Main Street, Bar Harbor, ME 04609  
207/288-6100 • jobs@jax.org

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## ▲ ASSOCIATE/ASSISTANT SCIENTISTS – ENZYMOLOGY

These individuals will aid in development and execution of biochemical assays as well as data analysis and storage using Macintosh and PC-based software. Successful candidates will also perform experiments to determine the detailed mechanism of action and potency of novel inhibitors towards Vertex enzyme targets. BS degree in Biology, Chemistry or Biochemistry required. 2+ years laboratory experience or MS in one of the above disciplines, along with demonstrated proficiency in enzyme assays or receptor-binding assays also required.

## ▲ INVESTIGATOR - MOLECULAR BIOLOGY

Responsible for generating and analyzing transgenic animals for drug discovery. Additional responsibilities will include designing and carrying out experiments for generating transgenic or gene-targeted mice; and validating molecular targets for drug discovery by characterizing transgenic animals. Ph.D. in Immunology, Neurobiology, Cell Biology or Molecular Biology with 3+ years postdoctoral experience in generating transgenic mice or knockout mice and using transgenic animal technologies to study gene functions required. Experience in neurobiology is preferred.

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## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR OF PATHOLOGY UNIVERSITY OF PENNSYLVANIA

The Department of Pathology in the School of Dental Medicine, University of Pennsylvania is seeking an outstanding scientist(s) for tenure-track faculty positions at either the **ASSISTANT or ASSOCIATE PROFESSOR** level. The candidate(s) must have a Ph.D. or a combined D.M.D.-Ph.D. degree or equivalent qualifications and postdoctoral training. The successful candidate is expected to develop, or have previously established, a high quality, independent research program in cellular and molecular pathogenesis of disease. Areas of interest include infectious disease and diseases associated with connective tissue, growth and development, and neoplasia. Also of interest are individuals whose research focuses on the relationship between disease, cell cycle abnormalities, and molecular aspects of cell death. The School of Dental Medicine and the University offer opportunities for collaborative research in many areas. The successful candidate will participate in the teaching program of the Department of Pathology which includes teaching of general and oral pathology to dental students. Applicants should send a letter that includes a statement of research interests, curriculum vitae, and bibliography. The candidate should also include a list of three referees. The completed application should be received by March 1, 1998, and should be sent to:

**Dr. Bruce J. Shenker**  
Professor and Chair  
Department of Pathology  
School of Dental Medicine  
4010 Locust Street  
Philadelphia, PA 19104-6002

*University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Applications are encouraged from qualified females and minorities.*

### ASSISTANT PROFESSOR OF BIOLOGY MCMASTER UNIVERSITY

McMaster University, a research-intensive institution and leading centre for biomedical and biological research, invites applications for a tenure-track position at the Assistant Professor level in the Department of Biology, effective July 1, 1998.

Candidates must hold a Ph.D. in biology or a closely related field from an accredited university, possess at least one year of postdoctoral experience, and have a productive research record in an area of cell biology, genetics, or virology. Successful applicants will be expected to establish and maintain an independent and externally funded research program, contribute to the education of graduate students, and teach undergraduate courses in one or more of genetics, cell biology, and virology.

Applicants should submit a curriculum vitae, a statement of their research goals, a statement of their teaching interests and experience, and should arrange for three letters of recommendation to be sent to: **Dr. Andrew J. Rainbow, Professor and Chair, Department of Biology, McMaster University, 1280 Main Street West, Hamilton, Ontario L8S 4K1 Canada.** The closing date for applications is March 1, 1998. E-mail and FAX applications will not be accepted.

*In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. McMaster University is committed to Employment Equity and encourages applications from qualified men and women, members of visible minorities, aboriginal peoples, and persons with disability.*

### FACULTY POSITION MEDICAL MICROBIOLOGY/IMMUNOLOGY

The Department of Microbiology at Midwestern University seeks applicants for a tenure-track position at the level of **ASSISTANT PROFESSOR** in the College of Medicine. The position is available for individuals specializing in microbial pathogenesis with an emphasis in immunology. 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 medical microbiology with previous teaching experience in a professional health care curriculum. Send curriculum vitae, names of at least three references, and a statement specifying teaching interests and research plans to: **J. R. Burdick, Ph.D., Department of Microbiology, Midwestern University, 555 31st Street, Downers Grove, IL 60515.** Website: <http://www.midwestern.edu>. *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN



The State University of New York at Potsdam invites applications for an **ASSISTANT PROFESSOR** of biology to teach microbiology and general biology to undergraduates. Qualifications required are a Ph.D. in microbiology or similar area. Applicants should demonstrate strong interest as well as competence in teaching undergraduate biology majors and non-majors. Successful applicant will be expected to maintain a research program which will include participation by undergraduates. Send a letter of application, curriculum vitae, and the names and telephone numbers of at least three references to: **Dr. Albert Robinson, Chair, Department of Biology, SUNY Potsdam, Potsdam, NY 13676.** Application deadline is February 13, 1998. *State University of New York is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.*

### UNIVERSITY OF ALABAMA AT BIRMINGHAM DEPARTMENT OF DERMATOLOGY SCHOOL OF MEDICINE

Applications are invited for two faculty positions at the **INSTRUCTOR or ASSISTANT PROFESSOR** level to work in the areas of immunodermatology and tumor biology. The individual chosen will have the opportunity to collaborate with research groups both within the basic sciences and in clinical departments in the School of Medicine. He/she should have experience in cellular immunological and molecular biological techniques. Candidates must have a Ph.D. or equivalent and have sufficient postdoctoral experience to demonstrate both significant accomplishments and outstanding promise. A curriculum vitae, a statement of research interest, and the names of three references should be sent to: **Dr. Craig A. Elmetts, Professor and Chair, Department of Dermatology, University of Alabama at Birmingham, University Station, P.O. Box SDB-76, Birmingham, AL 35294-0007.** FAX: 205-934-5766; e-mail: [gramer@uab.edu](mailto:gramer@uab.edu).

*University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.*

### DEVELOPMENTAL BIOLOGY AND IMMUNOLOGY

The Biology Department of Wittenberg University seeks to fill a **TENURE-TRACK POSITION**. Responsibilities include the development of courses in immunology, developmental biology, a course for non-majors, and participation in our team-taught introductory or senior capstone course; advising undergraduates; and fulfilling other departmental and university responsibilities. The department values active involvement of undergraduates in research. Applicants should have a Ph.D. and undergraduate-level teaching experience. Applicants should send a curriculum vitae, a statement of teaching philosophy, complete transcripts, and three letters of recommendation to: **Timothy L. Lewis, Chair, Department of Biology, Wittenberg University, P.O. Box 720, Springfield, OH 45501.** Review of applications will begin on 15 February 1998 and continue until the position is filled. *Wittenberg University is an Affirmative Action/Equal Opportunity Employer. We encourage women and minority applicants to apply as we are committed to creating an ethnically and culturally diverse community.*

Plant Ecology. Gonzaga University invites applications for a tenure-track **ASSISTANT PROFESSOR** position to begin fall, 1998. A Ph.D. with primary specialization in plant ecology is required and field research interests appropriate to the region are strongly preferred. The successful candidate will be broadly trained and committed to teaching in a liberal arts setting. Tenure-track members of the department are expected to develop research programs suitable for the involvement of undergraduates and to compete for extramural funding. Gonzaga (website: [www.gonzaga.edu](http://www.gonzaga.edu)) is a competitive, humanistic, Jesuit comprehensive university in the inland Northwest. For further information, e-mail: [leftcort@gonzaga.edu](mailto:leftcort@gonzaga.edu). Interested individuals should send curriculum vitae, statement of research and teaching interests, recent reprints, and three letters of recommendation to: **Hugh Leftcort, Ecology Search Committee, AD Box 8, Gonzaga University, 502 East Boone Avenue, Spokane, WA 99258.** Formal review of applications will begin February 2, 1998. *Gonzaga University is an Equal Opportunity/Affirmative Action Employer committed to diversity.*

## POSITIONS OPEN

### FACULTY POSITION

The Division of Basic and Pharmaceutical Sciences at Albany College of Pharmacy invites applications for a nine-and-a-half-month tenure-track faculty position at the rank of **ASSISTANT or ASSOCIATE PROFESSOR**. Qualified candidates will have an earned doctorate in medicinal chemistry, pharmacology, toxicology, biochemistry, or a related field. Postdoctoral experience is required. Teaching responsibilities will include collaboratively taught pharmacology/medicinal chemistry/pathophysiology courses offered in the Doctor of Pharmacy curriculum. A strong commitment to excellence in teaching, research, and service is essential. Review of applications will begin March 15, 1998. Applicants should provide a curriculum vitae, a statement of research interests and professional goals, and the names and addresses of three references. Please send applications to: **D. Sylvestre, Ph.D., Division of Basic and Pharmaceutical Sciences, Albany College of Pharmacy, Albany, NY 12208.** *Albany College of Pharmacy is an Affirmative Action/Equal Opportunity Employer.*

### DEPARTMENT OF BIOLOGICAL SCIENCES

One **LECTURER** to teach undergraduate courses in anatomy and physiology, and one **ASSISTANT/ASSOCIATE PROFESSOR** (neurobiology/neuropharmacology) to teach undergraduate courses in neurophysiology and histology, develop a graduate course in ethno-pharmacology, and maintenance of vigorously funded research program expected. Qualifications: Both positions require a Ph.D. in appropriate area with documented teaching skills and demonstration of strong commitment to teaching. See website: <http://www.lehman.cuny.edu>. Send curriculum vitae and related materials by March 2, 1998, to: **Dr. Thomas E. Jensen, Chair, Department of Biological Sciences, Lehman College, 250 Bedford Park Boulevard West, D-217, Bronx, NY 10468-1589.** *Equal Employment Opportunity/Affirmative Action/ADA Employer.*

### RESEARCH FACULTY POSITION

The University of Oklahoma Health Sciences Center, Tulsa Campus, seeking Ph.D. or equivalent experienced Molecular Biologist for tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** position in surgery. Opportunity to organize and direct core molecular biology research laboratory for faculty and students and pursue individual interests is offered. Teaching responsibilities include medical students and residents. Funds for start-up and support staff are available. Endowed Chair will be awarded to qualified individual. Send curriculum vitae to: **Thomas A. Broughan, M.D., Chairman, Department of Surgery, The University of Oklahoma Health Sciences Center, 2808 South Sheridan, Tulsa, OK 74129-1077.** *Affirmative Action/Equal Opportunity Employer.*

The George Washington University invites applications for a tenure-track **ASSISTANT PROFESSOR** position in hominid paleobiology in the Department of Anthropology. He/she will have been awarded a Ph.D. and will have established a research reputation in human evolutionary studies, preferably in the interface between functional and phylogenetic analysis. Experience of experimental approaches to functional analysis is desirable. Applicants should send, by February 6, a curriculum vitae, a 1,000-word summary statement of their research agenda, and the names of three referees to: **Bernard Wood, Department of Anthropology, The George Washington University, 2110 G Street N.W., Washington, DC 20052 USA.** Salary will be commensurate with experience. *The George Washington University is an Equal Opportunity Employer.*

### ASSISTANT EDITOR

*Nature Medicine* seeks an Assistant Editor for a six-month period, starting immediately. The ideal candidate should have a solid biomedical research background combined with an interest in editing and publishing. The primary qualifications are a Ph.D. in the biological sciences and a broad interest in science. Please submit a curriculum vitae, names and addresses of three references, a concise letter stating your qualifications and interest in the post, and a 500-word *News and Views*-style article on a subject of your choice to: **The Editor, Nature Medicine, 345 Park Avenue South, 10th Floor, New York, NY 10010-1707.** FAX: 212-683-5751; e-mail: [medicine@natureny.com](mailto:medicine@natureny.com).



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## **POSTDOCTORAL POSITION IN BIOCHEMISTRY**

A postdoctoral position is available in the laboratory of Dr. Paul Ney to investigate erythroid differentiation. Areas of research include transcriptional regulation of globin gene expression and signaling pathways in Friend virus-induced erythroblastosis. Emphasis will be placed on murine models of erythropoiesis, including gene targeting experiments. The department of Biochemistry, under the direction of Dr. James Ihle, provides an exceptional environment for scientific achievement and career development. Applicants should have a recent Ph.D. degree and a strong background in cell and molecular biology. Please send curriculum vitae, a brief statement of research interests, and three letters of recommendation to: Dr. Paul Ney, Department of Biochemistry, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105. E-mail: paul.ney@stjude.org

## **Science & Technology.**

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### **Postdoctoral Fellow - Microbial Physiology**

The Natural Products Discovery group seeks a postdoctoral candidate to develop generic tools for rapid development of small scale fermentations using state-of-the-art analytical and computational approaches. The ideal candidate would be educated in microbial physiology with strong interest and aptitude for analytical chemistry and statistical approaches to industrial fermentation applications.

### **Postdoctoral Fellow - Synthetic Organic Chemistry**

The postdoctoral fellow will be responsible for designing and executing chemical reactions for combinatorial analog synthesis of natural product scaffolds. Candidates should have a recent Ph.D. degree in synthetic organic chemistry with experience in modern separation and analytical techniques. Prior experience in combinatorial synthesis and familiarity with natural products, though not required, are highly desirable.

For consideration, please send resume with cover letter to: Eli Lilly and Company, Chemical-Research Technology and Proteins, Manager, (Postdoctoral Application, DC1533), Indianapolis, IN 46285.

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**Europe: Debbie Cummings**  
Phone: 44 (0) 1223 302 067  
Fax: 44 (0) 1223 576 208  
E-mail: [european\\_ads@science-int.co.uk](mailto:european_ads@science-int.co.uk)



## POSITIONS OPEN

### HEALTH SCIENTIST ADMINISTRATOR

The National Institutes of Health, National Center for Research Resources (NCRR), is seeking applicants for the position of Health Scientist Administrator, GS-601-13/14, for its Research Infrastructure area. This position is located in Bethesda, Maryland, and is a permanent, full-time position with a salary range of \$55,969 to \$85,978 per annum, commensurate with qualifications. A recruitment bonus of up to 25 percent of base pay may be available to a non-federal selectee for this position. A relocation bonus of up to 25 percent of base pay (subject to approval) may be available to a permanent Federal employee who must relocate to accept this position.

The Health Scientist Administrator will serve as the scientific manager of a broad grants-in-aid program designed to assist institutions that conduct PHS-supported research to repair, renovate, modernize, and expand the research facilities. Programs may support alterations and renovations or construction. The incumbent will provide the scientific leadership for planning, developing, administering, and evaluating all activities that are encompassed by these grant award programs. The incumbent will also serve as the Program Director, Research Facilities Improvement and Animal Facilities Improvement Program. In this capacity the incumbent formulates overall program goals, and plans, directs, coordinates, and administers these programs. In addition, as it relates to research facilities, the incumbent will serve as the focal point for the development of information on biomedical/behavioral research being conducted through federal support and/or through support by voluntary public organizations, private foundations, and organizations in the public sector as related to the NIH mission.

Applicants for this position must have a doctoral degree with expertise in biomedical or behavioral research and must be a United States citizen. Send applications to: **Ms. Erin Bandak, National Institutes of Health, National Center for Research Resources (NCRR), 31 Center Drive, Building 31, Room 3B43, Bethesda, MD 20892-2131.** For application forms and a copy of the announcement, contact: **Ms. Bandak, Telephone: 301-496-1524.** Applications must be postmarked by February 2, 1998.

Public Health Service Commissioned Officers interested in performing the duties of the position within the Commissioned Corps may submit a résumé to the above address.

*NIH is an Equal Opportunity Employer.*

### BIOLOGY LEARNING TECHNOLOGY CONSULTANT

#### UNIVERSITY OF WISCONSIN-MADISON Division of Information Technology (DoIT)

University of Wisconsin-Madison, Division of Information Technology, Learning Technology, and Distance Education (LTDE) Department and Center for Biology Education (CBE) seek a Biology Learning Technology Consultant to work with faculty and instructional staff to effectively integrate technologies for teaching and learning in the biological sciences. For position description, requirements, salary, and application information, see website: <http://www.wisc.edu/learntech/> or contact: **Marie Yanke, e-mail: marie.yanke@doit.wisc.edu; Telephone: 608-263-1790** (reference PVL #28803). To ensure consideration, apply by February 6, 1998. Unless confidentiality is requested in writing, information regarding applicants/nominees will be released upon request. Finalists not guaranteed confidentiality.

*An Equal Opportunity Employer.*

**ASSISTANT/ASSOCIATE PROFESSOR.** Ph.D. tenure-track, Department of Surgery, Medical University of South Carolina. Seeking an independent investigator with experience and interest in cancer vaccine and/or gene therapy development to work as part of a new molecular oncology translational research group. Qualifications: Ph.D. with relevant postdoctoral fellowship. Should have evidence of research productivity with peer-reviewed publications and clear potential for independent funding. Responsibilities: development of an independent laboratory in close collaboration with funded surgical faculty with an emphasis on translation into novel cancer therapies. Excellent laboratory resources and support. Contact: **D. J. Cole, M.D., Medical University of South Carolina Department of Surgery, 171 Ashley Avenue, Charleston, SC 29425. Telephone: 803-792-1387; FAX: 803-792-2048; e-mail: coledj@musc.edu.**

## POSITIONS OPEN



THE UNIVERSITY OF IOWA

### NEUROLOGIST POSITION IN PAIN MEDICINE

The Departments of Neurology, Anesthesia, and Pharmacology at The University of Iowa Medical Center are expanding their clinical and academic Pain Medicine Program and have available a faculty position for a Neurologist in either the clinical or tenure track. For both tracks an established record in the management of pain patients is essential. In addition, a distinctive research background and commitment to research career is essential for appointment consideration to the tenure track. Given the broad population of The University of Iowa's tertiary care center, the position offers an unusual opportunity for clinical research. Opportunities for fundamental research are also unique given the institution's strength in pharmacology, pain medicine, neuroimaging, neuropsychology, and cognitive neuroscience.

Successful candidates will have an M.D. degree and relevant board certification with related fellowship experience highly desirable.

Apply to: **Dr. Antonio R. Damasio, M.D., Professor and Head, Department of Neurology, The University of Iowa, 200 Hawkins Drive, Iowa City, IA 52242.**

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

**CHIEF EDITOR** of *Neuropsychopharmacology*. The American College of Neuropsychopharmacology seeks applicants for the position of Chief Editor of the College's international journal, *Neuropsychopharmacology*. Chief Editor has responsibility for directing the editorial and publication process and oversight of the activities of Associate Editors and Managing Editor. Candidates must have outstanding professional status and recognition in the field of biological psychiatry and clinical neuroscience; a reputation for personal and professional integrity; superb writing, editorial, and journalistic skills; breadth of scientific interest; depth of scientific expertise, and alertness to social and ethical issues of importance to science; familiarity with the editorial process; knowledge of skilled reviewers; and a firm commitment to and understanding of electronic publishing.

Involvement with the College is desirable. Applicants should submit the following before February 6, 1998: a curriculum vitae; the names of a minimum of three references (excluding College officers); a statement of practicalities (location, institutional support, estimation of time available, and relevant experience); and a letter of commitment and support of time and space from the applicant's chairperson or institution to:

**David Kupfer, M.D./Oakley Ray, Ph.D.**  
ACNP Search Committee  
320 Centre Building  
2014 Broadway  
Nashville, TN 37203 USA  
Telephone: 1-615-322-2075  
FAX: 1-615-343-0662  
E-mail: [acnp@acnp.org](mailto:acnp@acnp.org).

### LECTURER IN ENVIRONMENTAL FLUID DYNAMICS

The Department of Geology and Geophysics and the Institute for Biospheric Studies at Yale University seeks applications for a three-year research/training position in the field of environmental fluid dynamics including atmosphere, ocean, glacier, and climate dynamics, or physical hydrology. Responsibilities include teaching one and a half courses per year and innovative research. Successful candidates will have a Ph.D. in the theory, modeling, laboratory experimentation, or observation of natural continua: air, water, and ice. Salary is \$37,200 per annum, with an additional \$5,000 per year, travel/research account.

Send résumé, statement of proposed research and names and addresses of three references to:

**Professor Danny M. Rye, Chair**  
Department of Geology and Geophysics  
Yale University  
P.O. Box 208109  
New Haven, CT 06520-8109

Deadline for applications is March 15, 1998, for September appointments.

*Yale is an Equal Opportunity Employer. Women and minority applications are encouraged.*

## POSITIONS OPEN

### POLAR ECOLOGIST POSITION #P-40-035

The Desert Research Institute, Biological Sciences Center (Reno, Nevada) is seeking an Ecologist with expertise in polar, cold desert ecosystems. The incumbent will develop a major research program focused on the terrestrial and aquatic ecology of cold deserts in polar regions and on other planetary bodies such as Mars or Europa. The individual will be expected to conduct and lead field and laboratory research related to the study of cold deserts in the Arctic and Antarctic. The individual will participate in studies that consider terrestrial analogs of environments on Mars and Europa. The individual is also expected to initiate independent or collaborative research projects and train graduate students. Education/experience: Minimum qualifications require a Ph.D. in aquatic sciences or a related discipline. Candidate demonstrates expertise in the ecological study of cold desert environments; demonstrated ability to present/publish research findings; ability to interact positively with others; and demonstrated success in acquiring research funding. Rank, salary, and benefits: This position is targeted at the **ASSISTANT RESEARCH PROFESSOR** (Rank 2) level, but candidates with outstanding qualifications may be considered for a higher rank. Salary very competitive and commensurate with qualifications. The Desert Research Institute offers an excellent benefits package. Application process and deadline: Submit a cover letter describing how your qualifications meet the position requirements and a complete résumé which must include the names, current telephone numbers, and postal and e-mail addresses. Incomplete application packets are not likely to receive full consideration. Review of applications will begin February 1, 1998, and will continue until the position is filled. Send completed application packets to: **Human Resources Department, Recruitment Office, P.O. Box 19040, Las Vegas, NV 89132-0040.** Address questions to: **Robert Wharton, Committee Chair, Telephone: 702-673-7469; e-mail: wharton@dri.edu** or **Jim Coleman, Director, Telephone: 702-673-7322; e-mail: jcoleman@dri.edu.**

*The Desert Research Institute is an Affirmative Action/Equal Opportunity Employer. We hire only U.S. citizens and those authorized to work in the United States.*

### RESEARCH ASSOCIATES IN SPACE BIOLOGY SPECIAL PROGRAM FOR MINORITY APPLICANTS

The advances in the Space Shuttle Program and development of the Space Station have allowed the development of space biology science that offers exceptional opportunities for research. NASA is offering Research Associate Awards in a special program for minorities at the postdoctoral level for scientists to conduct space biology research in a university laboratory or nongovernmental research institute of your choice that can provide the necessary facilities and research environment. Projects should be in the gravitational and space biology discipline. The awards are: \$20,000 for the first year and have the possibility of renewal at \$22,000 for a second year. Funding will begin July 1 to October 1, 1998. This is a special program for minority applicants, and U.S. citizens and permanent resident aliens with Ph.D., M.D., D.V.M., D.M.D., or equivalent degrees are eligible to apply. Proposals are due April 15, 1998. For information and application booklet contact: **Dr. Gerald Sonnenfeld, Department of General Surgery Research, Carolinas Medical Center, P.O. Box 32861, Charlotte, NC 28232. Telephone: 704-355-2639; FAX: 704-355-7203.**

### M.S./B.S. MOLECULAR BIOLOGIST-BIOCHEMIST

Immediate openings to support programs in the areas of growth factor/cytokine signal transduction and novel receptor identification/characterization. Searching for self-motivated scientist with strong molecular and cell biology skills and at least three to five years of laboratory experience. Must be familiar with cDNA and genomic cloning, restriction mapping, cell culture, PCR, differential display, sequencing, gene expression, Macintosh programs, etc. Send curriculum vitae and names of three references to: **Martin Montoya, Ph.D., Division of Growth Regulation RE-213, Beth Israel Deaconess Medical Center, Harvard Medical School, 330 Brookline Avenue, Boston, MA 02215.** *Beth Israel Deaconess Medical Center/Harvard Medical School is an Equal Opportunity Employer.*

## THE NATIONAL RESEARCH COUNCIL

and the

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Each awardee will work in one of the above project areas as a guest investigator at the EPA/Western Ecology Division, NHEERL.

For further information on the above opportunities, contact:

Dr. Steven Ferraro  
U.S. EPA/NHEERL/WED  
2111 S. E. Marine Science Drive  
Newport, OR 97365-5260  
TEL: 541-867-4048  
FAX: 541-867-4049  
email: ferraro.steven@epamail.epa.gov

Application, submitted directly to the NRC, are accepted on a continuous basis throughout the year. Those postmarked by April 15 will be reviewed in the June competition and by August 15 in the October competition.

For application materials contact:

**NATIONAL RESEARCH COUNCIL**  
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2101 Constitution Avenue, NW  
Washington, DC 20418  
FAX: (202) 334-2759  
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## ANTIBODIES 1998

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## GLOBAL CAREER OPPORTUNITIES



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## Lecturer/Senior Lecturer (Level B/C) in Genetics

(Tenurable) JOINT UQ AND QIMR POSITION

The University of Queensland and the Queensland Institute for Medical Research have established a Joint Program in Genetics. An experienced geneticist is sought to develop and coordinate the program, participate in undergraduate and postgraduate teaching, and undertake research. The successful applicant will be expected to bridge existing research strengths of the University and QIMR in human, evolutionary and conservation genetics and spanning molecular, population and quantitative approaches. Appropriate areas of expertise include, but are not restricted to, mathematical population genetics, molecular evolution and quantitative genetics.

The position is a joint appointment between the Faculties of Biological and Chemical Sciences and Health Sciences at the University of Queensland and the QIMR. These groups have a wide range of major facilities and research strengths in molecular, population and evolutionary genetics. Further information is available by contacting Dr Craig Moritz (cmoritz@zoology.uq.edu.au) or Dr Georgia Chenevix-Trench (georgiat@qimr.edu.au) or at the following Web sites (<http://www.uq.edu.au> and <http://www.qimr.edu.au>).

The appointee will be located in the Department of Zoology at the University of Queensland and will also work with staff at QIMR. The Joint Program is available for three years. Continuation of the Joint Program is dependent upon the mutual agreement of the University and QIMR. If the program is not renewed the appointment will revert to a tenurable position in the Department of Zoology.

A written position description and selection criteria are available from Ms S. Lowrey (s.lowrey@mailbox.uq.edu.au), telephone +61-7-3365-7946. The position is available from the end of February 1998.

Salary range: Lecturer (Level B), A\$47,142 – A\$55,981 per annum; Senior Lecturer (Level C), A\$57,748 – A\$66,587 per annum.

The University requires an original plus (8) eight copies of both an application and résumé. Applications quoting Reference No. 41297, including the names, addresses, facsimile numbers and email address of three referees should be forwarded to Ms S. Lowrey, Personnel Officer, Faculty of Biological and Chemical Sciences, The University of Queensland, Brisbane Qld 4072 Australia. Closing date for applications: 2 February 1998.

## POSITIONS OPEN

### RESEARCH SCIENTIST IMMUNOLOGY

Boston-based biotechnology company and rapidly growing leader in cell transplantation seeks individual to implement research and development projects. Individual will focus on the mechanism of Diacrin's immunomodulation technology in cell transplantation. Work will include molecular studies of lymphocyte activation and cytokine production both *in vitro* and in animal models. Ph.D. and one year of related experience. Contact: **Linda James Brown, Diacrin, Inc., Navy Yard Building 96, 13th Street, Charlestown, MA 02129. Telephone: 617-242-9100; FAX: 617-242-0070.**

### RESEARCH PHYSIOLOGIST

The U.S. Plant, Soil, and Nutrition Laboratory (USDA-ARS) in Ithaca, New York, has a position for a Research Physiologist to conduct research on the biochemical and physiological mechanisms of enteric absorption and utilization in humans of plant-based organic and inorganic nutrients, as well as plant-based compounds that impact human health. These could include essential mineral nutrients, plant-based compounds that might play a role in preventing human disease (cancer, heart disease, osteoporosis), plant-derived compounds that either enhance or inhibit the utilization of important nutrients, and toxic compounds and metals that enter the food chain via plant absorption from the soil or biosynthesis within the plant. Incumbent will work as part of a team in an overall laboratory program aimed at improving the nutritional and health-promoting qualities of plant foods for humans. The U.S. Plant, Soil, and Nutrition Laboratory is located on the Cornell University campus; thus the research will have access to resources and facilities afforded by a major research university. *Candidates must be U.S. citizens and have knowledge of physiology, biochemistry, and human nutrition, as well as skill in fundamental biochemical and physiological techniques.* Salary is \$44,953 to \$60,583, depending on qualifications. For application procedures, call: **Dina Marinos, Telephone: 607-255-8468.** Applications must be marked ARS-D8N-0007R and postmarked by February 9, 1998.

USDA-ARS is an Equal Opportunity Employer.

The National Institute on Aging, National Institutes of Health, Public Health Service, is seeking a **SCIENTIFIC REVIEW ADMINISTRATOR** to conduct reviews of grant applications in the area of neuroscience (GS 601/602—12/13/14; \$47,066 to \$85,978). Applications are invited from candidates with demonstrated strong scientific, administrative, and communication skills. A research background in the neurosciences is required. Broad knowledge of principles, theories, and practices related to the scientific fields of contemporary neuroscience is expected. Experience with peer review of health research grant applications is desirable.

*U.S. citizenship is required.* Send a résumé and/or the Optional Application for Federal Employment (OF-612), or the Application for Federal Employment (SF-171) to: **Christine Hartz, NIA Personnel Office, Building 31, Room 2C02, Center Drive MSC 2292, Bethesda, MD 20892-2292. Telephone: 301-496-5460.** To receive a FAX of the complete vacancy announcement, **Telephone: 1-800-728-5627, ID #1215.**

NIH is an Equal Opportunity Employer.

### SUMMER PROGRAM FOR UNDERGRADUATE RESEARCH

Several paid research positions are available to minority undergraduates during summer 1998 as part of our NSF Training Grant on the Genetic Mechanisms of Evolution, an award from the HHMI foundation and the University of Oregon Institute of Molecular Biology. *Qualified applicants must be U.S. citizens or permanent residents, and will participate in ongoing biological research at the University of Oregon on topics involving evolution, genetics, development, ecology, molecular biology, and population and conservation biology.* To apply, send letter of application, transcript, résumé including statement of interests, and two letters of recommendation by 15 March 1998 to: **Summer Program for Undergraduate Research, Department of Biology, 1210 University of Oregon, Eugene, OR 97403-1210.** Further information is available on the World Wide Web at website: <http://evolution.uoregon.edu/spur.html>.

## POSITIONS OPEN

### DIRECTOR MUSEUM OF NATURAL HISTORY

As Chief Administrative Officer of the Museum, the Director is responsible for all Museum operations, including events for the public and the University community, educational outreach, exhibit development, and collections management. The Director supervises a small permanent staff, reports to the Dean of the College of Liberal Arts and Sciences, and is advised by an appointed Board of Directors representing related disciplines at the University and related state agencies. The ideal applicant might combine an earned doctorate with a record of responsible museum experience or an advanced degree with a record of substantial and responsible experience in the research, government, private, or nonprofit sectors. Completed applications should include a curriculum vitae highlighting relevant museum experience, a one- to two-page statement outlining a vision for the Museum, and at least three reference letters from individuals able to evaluate the candidate's professional, administrative, and leadership skills. Contact our office (**Telephone: 860-486-4460**) for an activity profile of the Museum. Applications should be sent to: **Dr. Kent E. Holsinger, Chair, Museum Board of Directors, Department of Ecology and Evolutionary Biology, U-43, University of Connecticut, Storrs, CT 06269-3023.** Applications received by 16 March will be assured of full consideration. *The University of Connecticut encourages applications from underrepresented groups including minorities, women, and people with disability.* (Search # 98A279)

### RESEARCH ASSOCIATE

Pel-Freez Clinical Systems, Molecular Product Division has an immediate opening for a qualified candidate with a Master's degree in molecular biology to join our expanding research and development group.

The candidate should have a strong background and working experience in DNA amplification and detection technology and its application in clinical diagnosis. Candidates should have knowledge and/or experience in various DNA mutation detection techniques. Experience in molecular product development in an industrial environment will be a plus. Preference will be given to the candidate who is knowledgeable in nucleic acid chemistry. The candidate selected will join the current DNA product development team as an active participant in new product design and validation.

Pel-Freez Clinical Systems is an innovative biotech company with a focus on HLA typing and molecular diagnostics.

If you are interested in joining a professional, team-oriented company, please mail or FAX your résumé and salary history in confidence to:

**Pel-Freez Clinical Systems  
ATTN: Human Resources Manager  
9099 North Deerbrook Trail  
Brown Deer, WI 53223  
FAX: 414-357-4518**

### 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**

### VERSAR, INC. ECOLOGICAL CONSULTANTS

Versar, Inc. has immediate openings for several dynamic, quantitative, recent Ph.D.'s to join our team of Ecological Consultants in Columbia, Maryland. The preferred candidates will have strong technical training, good writing and communication skills, the ability to work in multidisciplinary teams, a desire to satisfy clients' technical and strategic needs, and an interest in building a technical or client specialty. Additional information can be found at website: [www.versar.com](http://www.versar.com). Submit a résumé to: **Human Resources, Versar, Inc., 9200 Rumsey Road, Columbia, MD 21045-1934.**

## POSITIONS OPEN

### PANORAMA RESEARCH INSTITUTE

San Francisco Bay Area research institute seeks entrepreneurial **BIOMEDICAL SCIENTISTS** with RO1 or other funding. All areas of biomedical research considered, including cellular and molecular biology, pharmacology, chemistry, and biochemistry. **Panorama Research Institute, 2462 Wyandotte Street, Mountain View, CA 94043. FAX: 415-694-7717; Telephone: 415-694-4996.**

### MANAGING EDITOR *The Journal of Neuroscience*

Large scientific society seeks Managing Editor to oversee in-house editorial and publishing of its prestigious journal, print and on-line. Published twice monthly with annual output of 10,000 pages. Will be responsible for a budget of \$3 million and staff of six. Position reports directly to the Executive Director and serves as liaison with Editor-in-Chief and editorial board of approximately 90. In addition to managing day-to-day publishing operations, will prepare annual budgets, recommend subscription prices, and support marketing. At least five years of experience, including on-line publishing. Dupont Circle location, competitive salary, and excellent benefits.

Send résumé and cover letter to: **Executive Director, Society for Neuroscience, 11 Dupont Circle N.W., Suite 500, Washington, DC 20036.**

### COLLECTIONS REGISTRAR

Department of Mammalogy will perform and oversee data entry; supervise one to four data entry personnel; improve database performance; answer inquiries; assist in writing grant proposals. Requirements: B.S. or B.A., advanced degree preferred; at least one year of experience utilizing electronic database programs (especially Paradox); familiarity with principles of systematics; some programming experience desirable. Salary \$35,000, plus benefits. Please send curriculum vitae, including telephone numbers and/or e-mail addresses of three references familiar with your professional qualifications to: **Dr. Ross MacPhee, Department of Mammalogy, American Museum of Natural History, CPW @ 79th Street, New York, NY 10024.** No telephone calls, please. Closing date: March 15, 1998. *An Equal Opportunity Employer.*

The University of Richmond invites applications for a full-time, nine-month, continuing non-tenure-track position as **DIRECTOR OF BIOLOGY LABORATORIES**, beginning August 1998. We seek a broadly trained individual with a Master's or Ph.D. degree whose responsibilities will encompass all aspects of laboratory instruction for a year-long majors course in organismal biology. Teaching experience and basic computer skills are required. Send curriculum vitae, statement of teaching experience, copies of undergraduate and graduate transcripts, and three letters of recommendation to: **Dr. W. John Hayden, Department of Biology, University of Richmond, VA 23173-9998** before March 1. *The University of Richmond is an Equal Opportunity/Affirmative Action Employer and strongly encourages women and minorities to apply for its positions.*

### POSTDOCTORAL POSITION

Two Postdoctoral Fellow positions at New England Medical Center/Tufts University School of Medicine are available immediately to investigate the inflammatory response with a focus on the complement system and cytokines. The successful candidate will have demonstrated skills and experience in molecular biology, immunology, and cell culture. Please send curriculum vitae, a summary of research interests and experience, and three names of reference to: **Burton D. Clark, Ph.D., Department of Medicine, New England Medical Center, Box 068, 750 Washington Street, Boston, MA 02111. FAX: 617-636-3216; e-mail: [burton.clark@es.nemc.org](mailto:burton.clark@es.nemc.org).**

NIH-funded **POSTDOCTORAL POSITION** available to do inner ear neurotransmission research involving patch-clamping and other techniques. The group employs molecular biological, immunohistochemical, and pharmacological methods. Send curriculum vitae and names and addresses of three references to: **Prof. Paul Guth, Pharmacology Department, Tulane University Medical School, 1430 Tulane Avenue, New Orleans, LA 70112. Telephone: 504-584-2630; FAX: 504-588-5283; e-mail: [pguth@mailhost.tcs.tulane.edu](mailto:pguth@mailhost.tcs.tulane.edu).**

## ANNOUNCEMENT

### James S. McDonnell Foundation Request for Proposals New Guidelines for 1998

New application guidelines for the following programs are available on the Foundation's web site:

#### 1. Eastern European Cognitive Neuroscience and Cognitive Science Program

This program provides special, short-term support for **collaborative** research projects in cognitive neuroscience or cognitive science proposed by researchers in Eastern Europe (EE), Central Europe (CE) or the Commonwealth of Independent States (CIS) and their North American or Western European colleagues. In 1998, the Foundation will award up to \$500,000 in support of collaborative research of this nature. **The deadline for application is August 4, 1998.**

#### 2. Pilot Projects in Cognitive Rehabilitation Research

This program will award up to \$600,000 annually in support of cognitive rehabilitation research carried out by interdisciplinary teams of cognitive neuroscientists, cognitive psychologists, and rehabilitation professionals. Proposed projects should address how the research findings on brain plasticity, brain structure/function relationships, cognitive science, studies of learning, and information processing theory can be applied to the design of clinical interventions to help individuals with acquired brain injuries improve their performance of functional, real-world tasks (e.g., self-care, meal preparation, tasks related to employment, etc.). Research teams proposing to identify the cognitive or neurobiological substrates of functional recovery (i.e. cortical reorganization, using new cognitive strategies), with the goal of developing cognitive therapies, are also appropriate for the RFP. **The deadline for applications is March 30, 1998.**

**Please review the guidelines before preparing an application.** Guidelines for these and other McDonnell Foundation programs and the McDonnell-Pew Program in Cognitive Neuroscience are posted on the Foundation's web site at <http://www.jsmf.org>. If you do not have access to the Internet, a copy of the guidelines can be obtained via email, [info@jsmf.org](mailto:info@jsmf.org) or by calling 314-721-1532. The Foundation encourages you to use the Internet or email. Contact: Susan M. Fitzpatrick, Ph.D., Program Officer, The James S. McDonnell Foundation, Suite 1850, 1034 S. Brentwood Blvd., St. Louis, MO 63117.

## GLOBAL CAREER OPPORTUNITIES

### THE CHINESE UNIVERSITY OF HONG KONG Faculty of Medicine

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

Applications are invited for the following post:

**Professor of Physiology - Department of Physiology (Ref. 97/110(665)/2)**

The Department of Physiology is very active in research, and offers courses to medical, nursing and pharmacy students of the Faculty of Medicine and to students in the Faculty of Science majoring in Human Biology. Applicants should have outstanding academic achievements, extensive teaching experience at undergraduate and postgraduate levels, and an established international record of research and publications. The appointee will be responsible for the organisation of teaching and research activities as well as administration of the department. Appointment will initially be made on fixed-term contract basis for up to three years. The appointee is expected to assume duty in July 1998 or as soon as possible thereafter.

**Annual Salary and Fringe Benefits:** Professor of Physiology commencing HK\$1,159,380 (approx. exchange rate in December 1997: £1=HK\$13.02; US\$1=HK\$7.8)

Starting salary will be commensurate with qualifications and experience.

Benefits include leave with full pay, medical and dental care, children's education allowance, housing benefit for eligible appointee subject to the rules for prevention of double housing benefits (with appointee contributing 7.5% of salary towards the provision of housing), and where applicable a contract-end gratuity (15% of basic salary).

Further information about the University and the general terms of service for teaching appointees is available on our World Wide Web homepage <<http://www.cuhk.edu.hk>>.

#### Application Procedure

Please send full resume, copies of academic credentials, a publication list and/or abstracts of selected published papers, together with names and addresses (fax numbers/email addresses as well, if available) of three referees to the Personnel Office, The Chinese University of Hong Kong, Shatin, NT, Hong Kong (fax: [852] 2603 6852) on or before **28 February 1998**. Please quote the reference number and mark "Application" on cover. [Note: The University reserves the right not to fill the post, to fill the post by invitation or to fill the post at a lower level].

## GLOBAL CAREER OPPORTUNITIES



### FACULTY APPOINTMENTS NATIONAL UNIVERSITY OF SINGAPORE DEPARTMENT OF PHARMACY

<http://www.science.nus.sg/~pharmacy/>

Applicants are invited for faculty appointments in the Department of Pharmacy. Candidates should preferably possess a first degree in Pharmacy and a Ph.D. degree in the area of Medicinal Chemistry. The candidate should have proven ability in research and postdoctoral experience, preferably in the area of design and synthesis of peptide-based therapeutic agents. Successful candidates must have the ability to develop active research programs and demonstrate enthusiasm in teaching.

The Department of Pharmacy of the National University of Singapore teaches a four-year undergraduate Pharmacy course, with an average total enrollment of 210 students. The mission of the Department is to establish itself as a centre of excellence for the learning of and research in pharmaceutical sciences and pharmacy practice, with the aim of producing competent pharmacists and pharmaceutical scientists who can contribute to the needs of the nation. The Department has continually striven for excellence in pharmaceutical research. In 1997/1998, it has received grants amounting to S\$6.2 million from private and public sectors for research in drug design and synthesis, drug formulation, and delivery systems.

Gross annual emoluments range as follows:

Lecturer	S\$ 58,840-74,800
Senior Lecturer	S\$ 68,410-144,350
Associate Professor	S\$128,050-177,750
Professor	S\$156,780-211,140

(US\$1.00=S\$1.67 approximately)

In addition, a 13th month Annual Allowance (of one month's salary) and an Annual Variable Component (of normally 2 months' salary) may be payable at year end, under the flexible wage system, to staff on normal contracts. The commencing salary will depend on the candidate's qualifications, experience, and the level of appointment offered.

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance, subsidized housing, education allowance for up to three children subject to a maximum of S\$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore. Staff members may undertake consultation work, subject to the approval of the University, and retain consultation fees up to a maximum of 60% of their gross annual emoluments in a calendar year.

All academic staff will be given a networked personal computer with access to a Cray supercomputer, UNIX hosts, departmental laser printers, a wide spectrum of software, on-line library catalogue, CD-ROM databases, Video-on-Demand, INtv, and Internet.

Application forms and further information may be obtained from:

**The Acting Head**  
Department of Pharmacy  
National University of Singapore  
10 Kent Ridge Crescent  
Singapore 119260  
Fax: (65)779-1554  
E-mail: [phagoml@nus.sg](mailto:phagoml@nus.sg)

Applications should be submitted by 31 March 1998.  
Only shortlisted candidates will be notified.



## POSITIONS OPEN

### POSTDOCTORAL POSITION BACTERIAL PATHOGENESIS

Position available immediately to study virulence mechanisms of *Neisseria gonorrhoeae*, focusing on genetic mechanisms for antigenic variation of surface proteins. Studies may also involve using the human challenge model of gonococcal infection. Experience in molecular biology and bacterial genetics highly desirable. Send curriculum vitae, statement of career goals/interests, and names of three references to: **Dr. Janne G. Cannon, Department of Microbiology and Immunology, CB# 7290, University of North Carolina, Chapel Hill, NC 27599.** E-mail: [jgc@med.unc.edu](mailto:jgc@med.unc.edu). The University of North Carolina at Chapel Hill is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE** position available in an active research program focused on macrophage biology related to atherosclerosis and vessel wall disease. Training/experience in cell/molecular biology and a background in atherosclerosis-related research preferred. Stable funding and competitive compensation offered. Reply with curriculum vitae, a cover letter, and three references to: **Dr. Theodore Mazzone, Director, Endocrinology and Metabolism, Rush Medical Center, 1653 West Congress Parkway, Chicago, IL 60612.**

**RESEARCH ASSOCIATE POSITION** to study smooth muscle differentiation in a novel system. The project involves identification of differentially expressed genes and requires ability to work independently plus strong background in molecular biology. Send curriculum vitae and names of reference to: **Dr. Lucia Schuger, Department of Pathology, Wayne State University, School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201.** FAX: 313-577-0057; e-mail: [lschuger@med.wayne.edu](mailto:lschuger@med.wayne.edu). Wayne State University is an Equal Opportunity Employer/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS** at Yale are available to study the cell biology of endothelial nitric oxide synthase (eNOS) and to develop models of angiogenesis and vascular remodeling in mice. Individuals with strong experience in techniques of cellular and molecular biology or *in vivo* models are sought. Please send curriculum vitae and names of three references to: **William C. Sessa, Yale University School of Medicine, Boyer Center for Molecular Medicine, 295 Congress Avenue, New Haven, CT 06536.** FAX: 203-737-2290; e-mail: [william.sessa@yale.edu](mailto:william.sessa@yale.edu).

**POSTDOCTORAL POSITIONS** in molecular pharmacology. We are creating novel therapeutic proteins by combinatorial library methods, and evaluating their function in cells. A Ph.D. with good molecular biology experience is essential. Send curriculum vitae and names of two references to: **Professor R. L. Juliano, Department of Pharmacology, CB# 7365, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7365.** An Equal Opportunity/Affirmative Action Employer.

**INSTRUCTOR** position available for a **VIRAL IMMUNOLOGIST** with a Ph.D. and proven publication record. Applicant should have interests in viral regulation of immune function. Send curriculum vitae to: **Dr. David Kaplan, c/o Susie Brill, Department of Pathology, Case Western Reserve University, 2109 Adelbert Road, BRB, Cleveland, OH 44106.**

Case Western Reserve University is an Affirmative Action Employer/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available for three years to study molecular biology of cellular uptake of folates and antifolate drugs such as methotrexate. Experience with molecular techniques and cell biology is essential. Send curriculum vitae and e-mail addresses of references to: **Jeffrey A. Moscow, M.D., Chief, Pediatric Hematology-Oncology, University of Kentucky, Kentucky Clinic Room 1457, 740 South Limestone, Lexington, KY 40536-0284.** FAX: 606-257-6048.

**TENURE-TRACK POSITION** in zoology for **NEUROBIOLOGIST** with interest in whole organism approach. Candidates with at least one year of postdoctoral experience should submit curriculum vitae, list of publications, and request three letters of reference to be sent to: **The Chairman, Department of Zoology, Tel Aviv University, Ramat Aviv 69978 Israel** not later than January 31st, 1998.

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATE IN VISION SCIENCES

SUNY, State College of Optometry invites applications for a two-year Postdoctoral Fellowship starting July 1998. The fellow will work in one of the following laboratories: (1) **Kenneth J. Ciuffreda:** myopia, accommodation, oculomotor biofeedback; (2) **Mark Rosenfield:** myopia, accommodation, and nearwork; (3) **Robert Sack:** tear film biochemistry, inflammation; (4) **Dean Yager:** psychophysics, low vision, reading; (5) **Qasim Zaidi:** color and shape perception. Salary: Stipend will be commensurate with NIH-NRSA support levels. Applicants should send a current résumé, three letters of recommendation, representative reprints or preprints, and a letter of interest addressed to:

**Ms. Zenia Tarkiewicz, Assistant to Associate Dean  
SUNY, State College of Optometry  
100 East 24th Street  
New York, NY 10010**

The letter of interest should clearly indicate a preference for one of the above laboratories. Candidates are encouraged to contact individual faculty. The review of applications will begin March 15, 1998, and will continue until the appointment is made.

Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** are available to: (1) examine the signal transducing pathways involved in modulating the phosphorylation and function of tau protein. These studies will focus on specific signal cascades that may be dysregulated during apoptosis and could contribute to neurodegenerative processes, or (2) examine the regulation of tissue transglutaminase. This protein functions as both a crosslinking enzyme and as a signal-transducing GTP-binding protein. These studies will be related to the pathogenesis of both Alzheimer's and Huntington's disease. An interest in the neuronal cytoskeleton and cell signaling, and a recent Ph.D. in cell biology, molecular biology, or a related discipline are required. You will join an established, well-funded research group at one of the top 15 NIH-funded institutions. Please send a copy of your curriculum vitae and contact information for three references to: **Dr. Gail V. Johnson, Department of Neurobiology, 1720 7th Avenue South, SC1061, University of Alabama at Birmingham School of Medicine, Birmingham, AL 35294-0017.** E-mail: [gvwj@uab.edu](mailto:gvwj@uab.edu).

Two **POSTDOCTORAL POSITIONS** available immediately to study (1) the regulation and structure-function relationship of heme-regulated eIF-2 $\alpha$  kinase, (2) the physiological role of HRI in erythroid development and the transcriptional regulation of HRI gene. Experience in cell culture and molecular biology are essential. Send curriculum vitae and three letters of reference to: **Dr. Jane-Jane Chen, Harvard-MIT Division of Health Sciences and Technology, E25-545, MIT, Cambridge, MA 02139.** FAX: 617-253-3459; e-mail: [j-jchen@mit.edu](mailto:j-jchen@mit.edu).

### POSTDOCTORAL POSITION STREPTOCOCCAL GENETICS/PHYSIOLOGY

Postdoctoral position to study virulence traits in *Streptococcus mutans*. Ph.D. required. Experience in molecular biology and background in microbial physiology preferred. Salary approximately \$25,000. Send curriculum vitae to: **Dr. Arnold Bleiweis, University of Florida, Department of Oral Biology, P.O. Box 100424, Gainesville, FL 32610.** FAX: 352-392-3070; e-mail: [bleiweis@dental.ufl.edu](mailto:bleiweis@dental.ufl.edu).

**POSTDOCTORAL POSITION** to study human papillomaviruses. Regulation of viral gene expression during keratinocyte differentiation; the interaction of viral proteins with cellular proteins involved in cell cycle control and apoptosis. Send curriculum vitae, research experience, and three letters of reference to: **Ann Roman, Ph.D., Department of Microbiology and Immunology, Indiana University School of Medicine, 635 Barnhill Drive, Indianapolis, IN 46202-5120.** E-mail: [aroman@iupui.edu](mailto:aroman@iupui.edu).

### POSTDOCTORAL POSITION NEUROBIOLOGY

Genetic analysis of pattern formation and axon, target interactions in the *Drosophila* brain (see *Cell* 78:437; *Cell* 86:411). Send curriculum vitae and references to: **Professor Sam Kunes, Room 433, Fairchild Building, 7 Divinity Avenue, Harvard University, Cambridge, MA 02138.** E-mail: [kunes@husc.harvard.edu](mailto:kunes@husc.harvard.edu).

## POSITIONS OPEN

Pacific Northwest-based health education institution is in need of a **SENIOR RESEARCH ASSOCIATE** to work in Portland, Oregon, on the molecular biology of signal transduction receptors in parasitic protozoa of the genus *Leishmania*. Will be required to design and screen genomic and cDNA libraries; perform analysis of cloned DNAs including restriction mapping, DNA sequencing, Southern and Northern blotting; prepare, purify, and characterize antibodies made from fusion proteins or peptides; utilize various PCR methodologies; perform biochemical assays including radioimmunoassays for cAMP; prepare and draft manuscripts describing results of research. Minimum requirements: Doctor of Philosophy degree in molecular biology; at least one year of experience working in area of molecular biology. (Experience and knowledge may have been gained through employment or education.) Hours are 8:00 a.m. to 5:00 p.m., Monday through Friday. Salary: \$30,200 per year. Applicants must have legal authority to permanently work in the United States. Send résumé to: **Employment Department, Attn: Job Order Number 5551538, 875 Union Street N.E., Room 201, Salem, OR 97311.** Résumé and/or cover letter must reflect every listed requirement or it will be rejected. An Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available in April-May 1998 to study population and species-level phylogeny and gene expression in amphibians and reptiles. The successful applicant should have experience in designing primers to amplify mitochondrial and nuclear genes, alignment and phylogenetic analysis of DNA sequences, *in situ* hybridization with DNA probes, herpetological field techniques, and quantitative genetics. Send a description of research experience, curriculum vitae, and names of three references to: **Dr. Stevan J. Arnold, 3029 Cordley Hall, Department of Zoology, Oregon State University, Corvallis, OR 97331-2914.** Application deadline is February 16, 1998. Oregon State University is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to the needs of dual career couples.

### POSTDOCTORAL POSITION BACTERIAL PATHOGENESIS

Postdoctoral position available immediately in bacterial pathogenesis to study the molecular basis of *Staphylococcus aureus* adherence to human endothelial cells. Studies will involve the cloning and characterization of a staphylococcal adhesin gene. Experience in cellular and molecular biology necessary. Send curriculum vitae and the names and addresses of three references to: **Franklin D. Lowy, M.D., Division of Infectious Diseases, Department of Medicine, Montefiore Medical Center, 111 East 210th Street, Bronx, NY 10467.** E-mail: [lowy@acom.yu.edu](mailto:lowy@acom.yu.edu).

A **POSTDOCTORAL POSITION** is available to study molecular mechanisms of vertebrate visual transduction. Experience in protein biochemistry and molecular biology is required. Experience in the signal transduction area is desired. Send curriculum vitae and the names of three references to: **Dr. Nikolai Artemyev, Department of Physiology and Biophysics, The University of Iowa, Iowa City, IA 52242-1109.** FAX: 319-335-7330; E-mail: [nikolai-artemyev@uiowa.edu](mailto:nikolai-artemyev@uiowa.edu).

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

**POSTDOCTORAL POSITION** available to study the mechanisms by which viral capsids control host range of mammalian parvoviruses. Our NIH-funded studies are examining both viral and cellular effectors in host range control. Candidate must have recent Ph.D. Experience in molecular biology and protein biochemistry required. Send curriculum vitae and names of three references to: **Dr. Colin R. Parrish, J. A. Baker Institute, College of Veterinary Medicine, Cornell University, Ithaca, NY 14853.** FAX: 607-256-5608; e-mail: [crp3@cornell.edu](mailto:crp3@cornell.edu). Cornell University is an Equal Opportunity/Affirmative Action Employer and Educator.

### POSTDOCTORAL POSITION

Postdoctoral position available to study the action of neuropeptidases in regulating peptide levels. Studies involve the use of recombinant enzymes. Experience in molecular biological techniques or enzymology an asset. Send curriculum vitae and letters of recommendation to: **Dr. Louis B. Hersch, Department of Biochemistry, MS 607, University of Kentucky, Lexington, KY 40536-0084.** An Affirmative Action/Equal Opportunity Employer.

**FACULTY POSITION  
INSTRUCTOR  
OR  
ASSISTANT PROFESSOR  
LEVEL**

The Department of Anatomy and Neurobiology at the University of Kentucky A.B. Chandler Medical Center has a tenure-eligible position at the Instructor/Assistant Professor level available July 1, 1998. The successful candidate must hold a Ph.D./M.D. and demonstrate scholarly activity in the area of education. Teaching will be in the areas of gross anatomy and developmental anatomy for medical and dental students. Review of applications will begin March 2, 1998, and continue until the position is filled.

Interested individuals should send a curriculum vitae, a statement of education interests, and the names of three references to:

**Dr. Bruce E. Maley**  
Chair, Search Committee  
Department of Anatomy and Neurobiology  
University of Kentucky  
A.B. Chandler Medical Center  
800 Rose St.  
Lexington, KY 40536

*The University of Kentucky is an Equal Opportunity Employer and encourages applications from minorities and women. Visit our website at [http://www.comed.uky.edu/medicine/html/anatomy\\_and\\_neurobiology.html](http://www.comed.uky.edu/medicine/html/anatomy_and_neurobiology.html).*

**EUROPEAN CAREER OPPORTUNITIES**



For the Endocrine and Reproductive Toxicology Group of our Experimental Toxicology Section in Muttens/Basel, Switzerland, Novartis Pharma is looking for a

**Laboratory Head in  
Reproductive Toxicology**

**Responsibilities:** This position requires managing the Reproductive Toxicology (RT) laboratory and supervising scientific, technical and administrative activities in accordance with GLP standards. In addition, the Laboratory Head will design and direct specific reprotoxicology studies and develop and maintain state-of-the-art RT technologies and systems.

**Requirements:** We require a university degree in veterinary, medical or natural sciences (preferably toxicology, biology or biochemistry), board certification in toxicology and at least four years of experience in reproductive toxicology. Candidates should, in addition have good knowledge of cell biology, physiology and general biochemistry as well as working knowledge of relevant IT systems. A good command of English and German as well as strong communication and writing skills are essential, as are good interpersonal and teamwork skills.

Please send your application documents to:

**Novartis Pharma AG**  
Personnel Department  
Mr. S. Jäggi  
CH-4002 Basel/Switzerland

**GLOBAL CAREER OPPORTUNITIES**



**Australian Resource  
Information and  
Environment Satellite**

**Australian Resource  
Information and  
Environment Satellite  
Call for Expressions of Interest**

**ARIES-1 Applications Development Program (ADP)**

The ARIES-1 Consortium invites expressions of interest from qualified organisations and individuals to conduct collaborative research into applications and user-products derived from the proposed ARIES-1 hyperspectral satellite.

Expressions of interest are solicited by 28 February for applications, algorithm and product development in:

1. Forestry and timber management
2. Agricultural cropping applications
3. Marine, coastal and riverine water
4. Grasslands and rangelands applications
5. Wetlands applications
6. Mineral exploration, mining and the environmental consequences of mining

Copies of the full announcement and back-ground information about the ARIES-1 Project and the satellite's imaging spectrometer specifications may be obtained from:

<http://www.syd.dem.csiro.au/research/MMTG/aries>

The ARIES ADP Manager  
c/o CSIRO Division of Exploration and Mining  
P. O. Box 136, North Ryde, NSW, 2113, Australia  
Phone: +61 2 9490-8839; Fax +61 2 9490-8960  
Email: [aries.adp@syd.dem.csiro.au](mailto:aries.adp@syd.dem.csiro.au)

**EUROPEAN CAREER OPPORTUNITIES**



**Max-Planck-Institut für Biophysik  
Frankfurt am Main**

In the Max-Planck-Institute for Biophysics in Frankfurt (Main) is the position of the

**Head of an Independent Junior Research Group**  
available.

The research of the applicants should involve a currently topical area of biophysics, preferably the structure and function of membrane proteins. Theoretical (e.g., computational biology) as well as experimental approaches will be considered. The appointment will be for a term of five years. The salary will be at the C2/C3 level on the German university scale, equivalent to an assistant/associate professor. The successful applicant will be provided with positions for one Ph.D.-level scientist (BAT lia), one Ph.D. student, and one technical assistant. Applications including a complete CV, a list of publications, a detailed research plan, and the names and addresses of three referees should be sent to:

**Max-Planck-Institut für Biophysik**  
- Verwaltung -  
Kennedyallee 70  
D 60596  
Frankfurt/Main  
Germany

Closing date for applications is February 15, 1998.  
*The Max-Planck-Society is an Equal Opportunity Employer.*

## POSITIONS OPEN

### POSTDOCTORAL ASSOCIATE POSITION IN VETERINARY PATHOBIOLOGY

The Department of Veterinary Pathobiology, University of Minnesota, wishes to fill a Postdoctoral Associate position. Candidate must have completed a Ph.D. degree or foreign degree equivalent by start date. Candidates with previous postdoctoral experience in molecular virology or molecular immunology will be given preference. This post-Ph.D. training program will include conducting experiments on current research programs within the Department of Veterinary Pathobiology. Duties will include identifying immunogenic epitopes of infectious bursal disease virus of chickens and constructing vectored recombinants containing the appropriate epitopes. Send a curriculum vitae, letter of interest, and three letters of reference. Applications will be reviewed continuously until the position is filled or through February 28, 1998, whichever occurs first. To: Dr. Jagdev M. Sharma, Search Committee Chair, Department of Veterinary Pathobiology, College of Veterinary Medicine, University of Minnesota, 1971 Commonwealth Avenue, St. Paul, MN 55108. E-mail: sharm001@tc.umn.edu. The University of Minnesota is an Equal Opportunity Employer and Educator.

### Ph.D.—PHYSIOLOGY, BIOLOGY, OR RELATED FIELD

Critical Care Medicine Department, Clinical Center, National Institutes of Health is seeking a **POSTDOCTORAL-LEVEL OR STAFF SCIENTIST-LEVEL INVESTIGATOR** to join a nationally recognized team investigating the pathophysiology of septic shock, focusing on cardiovascular physiology and immunology in animal models. Familiarity with radionuclide cineangiography and heart catheterization is preferred; record of ability to produce high-quality publications is sought.

The position is a Federal Executive Service Position, salary range \$55,000 to \$65,000, initial appointment up to two years with possible extensions. Excellent benefits package. To apply, send résumé to: NIH, 10 Center Drive MSC 1662, 10/7D43, Bethesda, MD 20892-1662, ATTN: Dr. Charles Natanson. NIH is an Equal Opportunity Employer. U.S. citizenship is required.

**POSTDOCTORAL POSITION** available in mid-1998 for model immunotherapy experiments on melanoma in our transgenic mice whose progressive cutaneous and metastatic disease closely parallels human malignant melanoma. T-cell vaccines will be based on consistent changes in RNA processing of melanocyte-specific genes in the tumors that are capable of generating novel peptides (PNAS 94:5332, 7561, 1997). Strong current experience in molecular biology and immunology are required. Send curriculum vitae and names of references to: Dr. Beatrice Mintz, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

A gene therapy **POSTDOCTORAL POSITION** is available immediately. Specific research areas are SCID-hu mouse model for HIV pathogenesis and stem cell reconstitution, and improved pseudotyped retroviral vectors for gene transduction. Experience in molecular biology and cell biology with background knowledge in immunology is highly desirable. Please send curriculum vitae and names of references by February 10 to: Dr. Ramesh Akkina, Department of Pathology, Colorado State University, Fort Collins, CO 80523. Telephone: 970-491-1009; FAX: 970-491-0603. Equal Opportunity Employer.

**POSTDOCTORAL RESEARCH POSITION** is available immediately to investigate integrin regulation of chemokine receptor desensitization in leukocytes. Background in molecular and cell biology techniques required. Position will be supported by a NIH postdoctoral training grant with departmental supplementation. Send curriculum vitae and three letters of reference to: Dr. Paul W. Gudewicz, Department of Physiology and Cell Biology, Albany Medical College (A-134), Albany, NY 12208. E-mail: paul\_gudewicz@ccgateway.amc.edu.

**POSTDOCTORAL POSITION** to study the developmental effects of xenoestrogens on the female genital tract during development. Must have experience in mouse reproductive biology. Background in molecular biology and biochemistry is desirable. Contact: Dr. Ana Soto, M.D., Cell Biology, Tufts Medical School, 136 Harrison Avenue, Boston, MA 02111. E-mail: asoto@infonet.tufts.edu; FAX: 617-636-6536.

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS STRONG CHILDREN'S RESEARCH CENTER University of Rochester Medical Center

Several positions are available immediately for candidates with a M.D. and/or Ph.D. with expertise in molecular/cellular biology/transgenic animals. Send or e-mail a curriculum vitae, citizenship, research experience and interests, names and addresses of three references to one of the faculty listed below at: **The Department of Pediatrics, Box 777, 601 Elmwood Avenue, Rochester, NY 14642.**

**J. Finkelstein**, oxidant regulation of gene expression (e-mail: finj@envmed.rochester.edu).

**R. Furlanetto**, IGF signal transduction (e-mail: rvfo@uhura.cc.rochester.edu).

**F. Gigliotti**, immunopathogenesis of *P. carinii* pneumonia (e-mail: fgig@uhura.cc.rochester.edu).

**R. Insel**, germinal center B lymphocyte biology (e-mail: rinsel@cc.urnc.rochester.edu).

**M. Nahm**, immunobiology of vaccines (e-mail: mnahm@cc.urnc.rochester.edu).

**M. O'Reilly**, oxidant regulation of lung proliferation/differentiation (e-mail: oreillym@envmed.rochester.edu).

**J. Palis**, initiation of embryonic hematopoiesis (e-mail: jpal@db1.cc.rochester.edu).

**G. Schwartz**, renal molecular physiology (e-mail: gesc@bphvax.biophysics.rochester.edu).

The University of Rochester is an Equal Opportunity Employer.

**MICROBIOLOGIST (POSTDOCTORAL RESEARCH ASSOCIATE)**. U.S. Department of Agriculture (USDA), Avian Disease and Oncology Laboratory, East Lansing, Michigan. The incumbent functions as a team member in the development of attenuated viruses for use as avian vaccines. This team member would be responsible for conducting scientific investigations to identify and characterize genes of Marek's disease virus (MDV). The successful candidate must have a broad knowledge of virology, biochemistry, and molecular biology. Ph.D. in directly related field is required. Position is funded for two years, with possibility of extension. Salary commensurate with experience (\$37,507 to \$44,953). Benefits available. For application procedures and to discuss the research project, call: **Dr. Robert Silva, Telephone: 517-337-6833; e-mail: silvar@pilot.msu.edu.** USDA/ARS is an Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** in Hisamitsu California Laboratories are available immediately. These positions will be involved in the research using the latest molecular/cell biology techniques in developing new immuno and antisense therapeutics. Qualified applicants must have a Ph.D. in biochemistry or molecular biology and preferably have experience with PCR, DNA, and RNA analysis, and gene cloning. Preference will be given to candidates with experience in cell culture and virology. Send curriculum vitae, list of publications, and the name of three references to: **Director, Hisamitsu California Laboratories, 2732 Loker Avenue West, Carlsbad, CA 92008. FAX: 760-431-4679; e-mail: inozawa@inetworld.net.**

**POSTDOCTORAL POSITIONS.** (1) To study mechanism of DNA binding and cleavage by metal bleomycin complexes. NMR spectroscopists are encouraged to apply. (2) To investigate mechanism of inhibition of kidney Na<sup>+</sup>-dependent nutrient transporters by Cd<sup>2+</sup>. Strong background in molecular biology required. Send curriculum vitae and references to: **Dr. David Petering, Department of Chemistry, University of Wisconsin-Milwaukee, Milwaukee, WI 53201. FAX: 414-229-5530. E-mail: petering@csd.uwm.edu.**

**POSTDOCTORAL POSITION** available immediately for a candidate with a background in behavioral, neuropharmacology, and/or neurophysiology of drugs of abuse to focus on the medication development for cocaine addiction. Send curriculum vitae, a brief statement of research interest to: **Srihari R. Tella, 3900 Reservoir Road N.W., Department of Pharmacology, Georgetown University School of Medicine, Washington, DC 20007. E-mail: tellasr@medlib.georgetown.edu.**

**POSTDOCTORAL POSITION** available immediately to study the role of highly phosphorylated guanine nucleotides in the regulation of antibiotic biosynthesis in *Streptomyces*. Experience with molecular biological techniques is required. Send curriculum vitae and three references to: **George H. Jones, Ph.D., Department of Biology, Emory University, Atlanta, GA 30322. FAX: 404-727-2880; e-mail: gjones@biology.emory.edu.**

## POSITIONS OPEN

### CENTER FOR NEUROVIROLOGY AND NEUROONCOLOGY Allegheny University of the Health Sciences

**POSTDOCTORAL POSITIONS.** Several Postdoctoral Fellow positions are immediately available for candidates interested in (1) studying regulation of HIV-1 gene expression in the central nervous system; (2) developing molecular therapeutic strategies against HIV-1 in the central nervous system; (3) investigating the role of cell cycle mediators in replication of HIV-1 and other human neurotropic viruses in brain; and (4) studying molecular pathogenesis of demyelinating diseases including multiple sclerosis. Candidates should have strong research background in molecular biology, biochemistry, and genetics.

All interested candidates should forward curriculum vitae and summary of their research interests to:

**Kamel Khalili, Ph.D., Director  
Center for NeuroVirology and NeuroOncology  
Broad and Vine Streets, MailStop 406  
Philadelphia, PA 19102  
E-mail: khalili@auhs.edu**

Allegheny University of the Health Sciences is an Equal Opportunity Employer and Educator.

**POSTDOCTORAL MOLECULAR BIOLOGY** position is available to study how the [Fe-S] protein FdI regulates the expression of NADPH: ferredoxin reductase (FPR) in *Azotobacter vinelandii*. The position may additionally involve study of nitrogenase and ferredoxin structure and function by construction of site-directed mutants. The successful candidate must have a Ph.D. and have training primarily in molecular biology. The last date for acceptance of curriculum vitae will be June 1, 1998. Send, FAX, or e-mail curriculum vitae and have three letters of recommendation sent directly to:

**Dr. Barbara K. Burgess  
Molecular Biology and Biochemistry  
University of California, Irvine  
Irvine, CA 92697-3900  
FAX: 714-824-8551  
E-mail: bburgess@uci.edu**

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

### POSTDOCTORAL POSITIONS IN GROWTH REGULATION

Positions are open immediately for Ph.D. or M.D. recipients to investigate growth factor/cytokine signal transduction and identification and characterization of novel signaling receptors important in normal/transformed cell growth and angiogenesis. Successful candidates will be creative, self-motivated scientists with proven molecular and cell biology skills. Send curriculum vitae, a statement of research interest and accomplishments, and names of three references to: **Thomas F. Deuel, M.D., Division of Growth Regulation, Beth Israel Deaconess Medical Center, Harvard Medical School, 330 Brookline Avenue, RE-213, Boston, MA 02215. Beth Israel Deaconess Medical Center/Harvard Medical School is an Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available to study the role of irritant receptors and neuropeptide receptors in environmental pollution-induced activation of airway macrophages. The ideal candidate will have experience in various techniques to study gene expression, cytokine gene regulation, measures of oxidant stress, and apoptosis, as well as a good understanding of ion-fluxes in signaling events. The studies will be conducted in collaboration with **Dr. Susanne Becker** and **Dr. Bellina Veronesi** at EPA in Chapel Hill, North Carolina. Please send curriculum vitae and the names of three references to: **Ms. Lealer Haith at the Center for Environmental Medicine and Lung Cell Biology, University of North Carolina, Campus Box #7310, Chapel Hill, NC 27599.**

Harvard. **POSTDOCTORAL POSITIONS** are immediately available to study molecular mechanisms of arteriosclerosis and hypertension with special emphasis on molecular cloning, transcriptional regulation, and biological function of nodal genes important for growth and differentiation of vascular wall cells and macrophages. Experience with molecular biology, cell biology, or protein chemistry is required. Please send curriculum vitae and names of three references to: **M. E. Lee, M.D., Ph.D., Acting Director, Cardiovascular Biology Laboratory, Building 2, Room 129B, Harvard School of Public Health, 677 Huntington Avenue, Boston, MA 02115.**



## Head of Respiratory Disease Research at Novartis Pharma

Novartis Pharma is a leading Healthcare provider that invested more than 1700 million U.S. Dollars into the Research and Development of novel therapies in 1997. It has major R&D centres in Switzerland, U.S.A., U.K., Japan and Austria. Currently Novartis Pharma focuses its discovery efforts on 7 therapeutic areas: Arthritis and Bone Metabolism, Cancer, Metabolic and Cardiovascular Diseases, Nervous System Diseases, Organ Transplantation, Respiratory Diseases and Skin Diseases.

We are now looking to appoint a Head of the Respiratory Disease Research Department, which will be located in a new purpose built Institute in Horsham, U.K.

Some 200 scientists representing all disciplines necessary for an effective, modern therapeutic discovery effort will make this the largest respiratory research group in the pharmaceutical industry. The main emphasis will be on the discovery of improved therapy for inflammatory diseases of the respiratory tract such as asthma and chronic obstructive pulmonary disease.

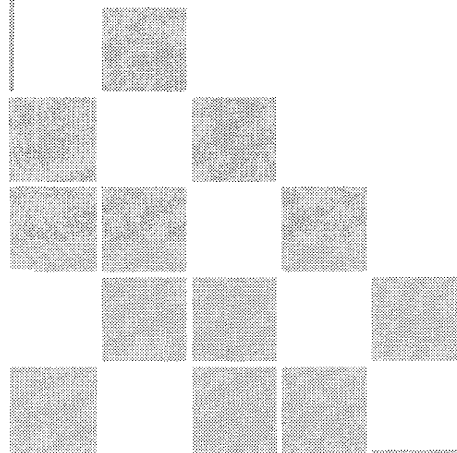
Applicants should have a first degree in biomedical sciences, a PhD in physiology, pathophysiology or a related area and at least 10 years experience in the respiratory field. A track record of scientific excellence and proven ability to direct large complex interdisciplinary research teams are prerequisites. Candidates must have leadership qualities, drive and scientific vision as part of a decisive personality. Considerable entrepreneurial, managerial and administrative skills are also required and experience in the pharmaceutical industry would be an advantage.

As the Head of Respiratory Research at Novartis Pharma your responsibilities will be to ensure a constant flow of innovative therapies, to establish the Department as a world leader in respiratory research and to take overall charge of personnel and budgetary affairs. In addition, as an ex officio member of the Research Board, you will participate in determining global corporate research strategy, including reviewing projects and development programmes from the other Novartis research centres.

An attractive compensation package commensurate with the importance attached to this demanding position will be offered.

Applications, including a detailed curriculum vitae and list of publications should be sent to:

**Novartis Pharma AG**  
Dr. Paul Herrling  
Head of Research  
Pharma Research S-386.13.06  
CH-4002 Basel  
Switzerland



## POSITIONS OPEN

### POSTDOCTORAL POSITIONS AT THE NATIONAL CANCER INSTITUTE

Position available immediately for studies of signal transduction mechanisms of hematopoietic growth factors. The major focus is directed toward delineating the biochemical and molecular mechanisms of action of stem cell factor, the ligand for the receptor tyrosine kinase c-Kit. Applicants should have a strong background in molecular and/or cellular biology, be a U.S. citizen or permanent resident, and have less than five years of postdoctoral experience. Send curriculum vitae, correspondence, and the names of three references to: **Diana Linnekin, NCI-FCRDC, Building 567, Room 226, NCI-FCRDC, Frederick, MD 21702. E-mail: linnekin@ncifcrf.gov.**

Two positions related to targeted drug development also are available immediately. Studies are focused on mechanisms mediating drug-drug interactions and cell death as well as on developing novel targeting agents for cancer therapy. Experience with antibody engineering or phage display would be a strong asset. Applicants should have less than five years of postdoctoral experience. Send curriculum vitae, correspondence, and the names of three references to: **Susanna Rybak, Ph.D., Building 567, Room 162, NCI-FCRDC, Frederick, MD 21702. E-mail: rybak@ncifcrf.gov.**

### POSTDOCTORAL POSITION TRANSGENIC MICE/SIGNAL TRANSDUCTION

Baylor College of Medicine

A Postdoctoral position is available to study mammalian development and reproduction and the TGF- $\beta$  signal transduction cascade using transgenic mice (see *Nature* 374:354-363, 1995; *Nature* 383:531-535, 1996; *Nature Genetics* 15:201-204, 1997). Applicants should hold a Ph.D. or an M.D.-Ph.D. by the time the position begins. The position requires strong training in biochemistry and/or molecular biology. Please send a curriculum vitae to:

**Martin M. Matzuk, M.D., Ph.D.**  
Department of Pathology and  
The Developmental Biology Program  
Baylor College of Medicine  
One Baylor Plaza  
Houston, TX 77030  
E-mail: mmatzuk@bcm.tmc.edu

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

**POSTDOCTORAL POSITION.** Structure function of thrombospondin-1 receptor. Immediate opening for individual holding Ph.D. or M.D. to clone and characterize thrombospondin-1 receptor in tumor cells. Experience in molecular biology required; protein cloning and purification, preparation of cDNA constructs and cell transfection, DNA methodologies including electrophoresis and protein and DNA blotting. FAX, mail, or e-mail curriculum vitae and names of three references to:

**Dr. George Tuszyński**  
Department of Surgery, MS 435  
Allegheny University of the Health Sciences  
Broad and Vine Streets  
Philadelphia, PA 19102  
FAX: 215-762-8787  
E-mail: tuszynski@auhs.edu

Equal Opportunity Employer.

**POSTDOCTORAL RESEARCH ASSOCIATE** in molecular RNA virology to study the role of tRNA-like structures in the replication of plant viral RNAs (*PNAS* 93:12212, 1996). Experience with molecular studies of RNA function required. To apply, contact: **Dr. Theo Dreher, Agricultural Chemistry, Oregon State University, Corvallis, OR 97331. E-mail: dreher@bcc.orst.edu.** Closes February 2, 1998. Oregon State University is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to the needs of dual career couples.

**POSTDOCTORAL POSITION** available to study molecular mechanisms of intracellular cholesterol transport and cholesterol homeostasis. Applicant must have M.D., Ph.D., or equivalent and a strong background in molecular and cellular biology. Send curriculum vitae and names of three references to: **Daniel S. Ory, M.D., Center for Cardiovascular Research, Washington University School of Medicine, Box 8086, 660 South Euclid Avenue, St. Louis, MO 63110. FAX: 314-362-8957; e-mail: dory@imgate.wustl.edu.**

## POSITIONS OPEN

### POSTDOCTORAL POSITION IN BIOCHEMISTRY/MOLECULAR BIOLOGY

The University of Michigan, Department of Dermatology, is seeking a highly motivated, creative scientist to fill a Postdoctoral position. Preference will be given to candidates who are available in the spring of 1998. Applicants should possess a Ph.D. with experience in biochemistry and/or molecular biology, with demonstrated research excellence, and strong written and oral communication skills.

Research will focus on molecular mechanisms through which ultraviolet irradiation activates protein kinase signal transduction cascades leading to expression of gene products associated with destruction of the extracellular matrix in human skin. These studies will also investigate the role of reactive oxygen species and cellular anti-oxidants as mediators of the ultraviolet response in human skin. This research will provide the selected applicant with a unique opportunity to examine signal transduction events in human tissue *in vivo* (see *Fisher et al., Nature* 379:335-339, 1996; and *New England Journal of Medicine* 337(20):1419-1428, 1997).

Positions offer competitive salaries, long-term stable funding, and excellent opportunities for career development/advancement.

Send curriculum vitae and references to: **Dr. Gary Fisher, Department of Dermatology, University of Michigan, 1150 West Medical Center Drive, Med Sci I 6447, Ann Arbor, MI 48109-0609. FAX: 734-647-0076; e-mail: dianemch@umich.edu.**

We encourage applications from candidates who will enrich and contribute to the cultural diversity of our University.

**POSTDOCTORAL POSITIONS** are available to study the immunopathogenesis of severe invasive streptococcal infections with a focus on host-pathogen interactions. The goal is to identify host immunogenetic factors (HLA allotypes and TCRV $\beta$  repertoire) that may potentiate responses to streptococcal superantigens and affect susceptibility to severe disease. Also, the work involves elucidation of the molecular mechanisms regulating Th1/Th2 cytokine responses to specific superantigens. A second project addresses the same questions in a model of post-infection autoimmunity. The applicant should have strong knowledge of cellular immunology. Experience in molecular biology and/or protein chemistry is desirable. The position offers a competitive salary, collaborations with researchers at the United States, Canada, and Europe.

Applicants should send a curriculum vitae to: **Professor Malak Kotb, Ph.D., Department of Surgery, University of Tennessee-Memphis, 956 Court Avenue, Suite A202, Memphis, TN 38163.**

### POSTDOCTORAL POSITIONS IN MAMMALIAN GERM CELL DEVELOPMENT

Postdoctoral positions are immediately available to study the functions of bone morphogenetic proteins (BMPs) and their signal transduction in primordial germ cell (PGC) development and spermatogenesis. Qualified candidates should have a Ph.D., M.D., or D.V.M. Candidates with different disciplines will be considered; however, those with experience in molecular biology, genetics, or reproductive biology are preferred. Send curriculum vitae and names and telephone numbers of three references to: **Dr. Guang-Quan Zhao, Department of Pathobiology, S 141 ASRC, University of Missouri College of Veterinary Medicine, Columbia, MO 65211. FAX: 573-882-6827. E-mail: guang\_zhao@mucmail.missouri.edu.**

Three **POSTDOCTORAL POSITIONS** in immunology available immediately at Stanford University to study (i) tolerance inducing HLA-derived peptides, (ii) granulysin, a novel cytolytic molecule, and (iii) transcriptional regulation of the chemokine RANTES. Experience in molecular biology, protein chemistry, and/or cellular immunology required. Send curriculum vitae and three letters of reference to: **Alan Krensky, M.D. or Carol Clayberger, Ph.D., FAX: 650-498-6077; e-mail: mln.aln@forsythe.stanford.edu.**

**POSTDOCTORAL POSITIONS** are available to study cardiac excitation-contraction coupling and hypoxic pulmonary vasoconstriction using patch-clamp and fluorescence techniques. Experience in electrophysiology on cardiac, vascular smooth muscle, or endothelial cells is preferred. Send curriculum vitae and names of three references to: **James S. K. Sham, Ph.D. Division of Pulmonary Medicine, Johns Hopkins Asthma and Allergy Center, Baltimore, MD 21224.**

## POSITIONS OPEN

### POSTDOCTORAL FELLOW HEMATOLOGY PROGRAM TRAINING GRANT JOHNS HOPKINS UNIVERSITY School of Medicine

Positions available starting July 1, 1998, with Hopkins faculty in the areas of:

Genetics, hematopoietic neoplasia, nuclear signal transduction: **P. Agre, C. Dang, G. Kato, T. Kelly, G. Pasternack, M. Schlissel, G. Semenza.**

Red cell membrane hemoglobin: **P. Agre, E. Benz, Jr., G. Dover.**

Thrombosis and hemostasis: **P. Bray, J. Casella, T. Kieckler.**

Stem cell biology, receptor signal transduction: **M. J. Fackler, S. Sharkis, J. Spivak.**

Send curriculum vitae to: **Chi V. Dang, M.D., Ph.D., Johns Hopkins University/School of Medicine, 720 Rutland Avenue, Ross 1025, Baltimore, MD 21205. E-mail: cvdang@welchlink.welch.jhu.edu** and indicate the areas or investigators interested in. Must be a U.S. citizen or permanent resident. For more information on research programs go to website: <http://ww2.med.jhu.edu/>. An Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL RESEARCH FELLOW** for research into free radical reaction mechanisms in biological systems. Applicant should have experience in photochemistry and/or free radical chemistry and a strong background in organic synthesis. A working knowledge of biological assays to assess cellular damage would also be preferable. Candidates should submit a curriculum vitae including the names of three references to: **Robert W. Redmond, Ph.D., Wellman Laboratories of Photomedicine, Harvard Medical School, Massachusetts General Hospital W-224, Boston, MA 02114. Massachusetts General Hospital and Harvard Medical School are Equal Opportunity/Affirmative Action Employers. Applications from women, minorities, disabled, and veterans are encouraged. We are especially interested in receiving applications from underrepresented minorities.**

### POSTDOCTORAL POSITIONS/ RESEARCH INSTRUCTORS

Available immediately for protein engineering. Preference given to those with a strong background in chemical synthesis of large peptides and proteins. Send curriculum vitae and names of three references to:

**Dr. James P. Tam**  
Microbiology and Immunology  
Vanderbilt School of Medicine  
A5119 MCN  
1161 21st Avenue South  
Nashville, TN 37232-2363

An Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL POSITION

To work with team investigating physical/biological/energetic factors influencing larval and early juvenile survival in fishes. Experience with fishes preferred but applications from researchers with relevant experience with other animal groups welcomed. Your availability: immediate to no later than September 1998. Send curriculum vitae, statement of research interests, and names, e-mail addresses, and telephone contact for three referees to: **Dr. W. C. Leggett, Richardson Hall, Queen's University, Kingston, Ontario K7L-3N6 Canada. E-mail: wcl@post.queensu.ca.** For additional details visit website: <http://darwin.biology.queensu.ca/~leggett/w/>.

**POSTDOCTORAL FELLOWSHIP** available immediately to study factors predisposing cells to proliferation or apoptosis. Approaches will involve an investigation of signal transduction complexes and spatial/temporal aspects of protein interactions in mammalian cells. Send curriculum vitae and names of three references to: **Dr. John R. Williamson, Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, PA 19104. FAX: 215-898-9918; e-mail: johnrwil@mail.med.upenn.edu.** Equal Opportunity Employer.

**SENIOR POSTDOCTORAL FELLOWSHIP** (with potential faculty appointment) to study intestinal gene regulation (*J. Clin. Invest.* 95:745; *Am. J. Physiol.* 271:G377; *J. Biol. Chem.* 272:31006). Experience in promoter analysis or transgenics required. Send cover letter, curriculum vitae, and names of three references to: **Dr. Benjamin L. Schneider, Department of Pediatrics, Mount Sinai Medical Center, Box 1198, One Gustave L. Levy Place, New York, NY 10029.**



## POSITIONS OPEN

### POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE University of Colorado Health Sciences Center

To study pathways regulating apoptosis in prostate cancer cells and integrating protein kinase and phosphatase pathways into cell death cascades. Experience in molecular/cellular biology is highly desirable. Please send curriculum vitae to: **Dr. Andrew S. Kraft, Chief, Division of Medical Oncology, 4200 East 9th Avenue, Denver, CO 80262. FAX: 303-315-5502.**

*University of Colorado Health Sciences Center is an Equal Opportunity/Affirmative Action Employer.*

### OUTSTANDING OPPORTUNITIES FOR GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS Vascular Biology The University of Virginia

The University of Virginia offers a multidisciplinary program in vascular biology emphasizing physiology, pharmacology, biophysics, and cell biology of the vessel wall. Thirty-one investigators are participants in a training program with a long history of successful mentoring of both graduate students and Postdoctoral Fellows. Our particular strengths are in the areas of biophysics, cell signaling, and microcirculation. Laboratory investigations are underway in cell-cell communication; cardiac, smooth muscle, and endothelial cell electrophysiology; smooth muscle cell signal transduction; and leukocyte-endothelial cell interactions. Positions include stipend, health insurance, and travel. Details of the faculty interests, a description of the program, and application forms may be found on the World Wide Web at **website: <http://www.med.virginia.edu/inter-dis/cvrc>**. Interested and competitive applicants may also apply directly to: **Dr. Brian R. Duling, Department of Molecular Physiology and Biological Physics, P.O. Box 10011, Health Sciences Center, University of Virginia, Charlottesville, VA 22906-0011.** *These positions are restricted to permanent residents or citizens of the United States. The University of Virginia is an Equal Opportunity Employer.*

### POSTDOCTORAL FELLOW IN ENVIRONMENTAL FLUID DYNAMICS

The Department of Geology and Geophysics at Yale University seeks applications for a two-year Bateman Fellow position in environmental fluid dynamics including atmosphere, ocean, glacier, and climate dynamics, or physical hydrology. Successful candidates will have a Ph.D. in theory, modeling, laboratory experimentation, or observation of natural continua: air, water, and ice. Salary is \$33,000 per year with an additional \$5,000 per year depending on experience, travel/research account.

Send résumé, description of proposed research, and names and addresses of three references to:

**Professor Danny M. Rye, Chair  
Department of Geology and Geophysics  
Yale University  
P.O. Box 208109  
New Haven, CT 06520-8109**

Deadline for applications is March 15, 1998, for September appointments.

*Yale is an Equal Opportunity Employer. Women and minority applicants are encouraged.*

### PRINCETON MATERIALS INSTITUTE

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For information and requests of nomination forms, please contact:

**Dr. René P. Michel  
Secretary, The Louis and Artur Lucian  
Award Committee  
McGill University  
Department of Pathology  
3775 University Street  
Montreal, Quebec H3A 2B4 Canada  
Telephone: 514-398-7192, ext. 7194  
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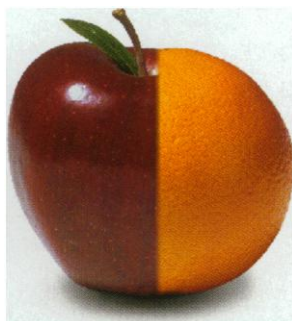
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