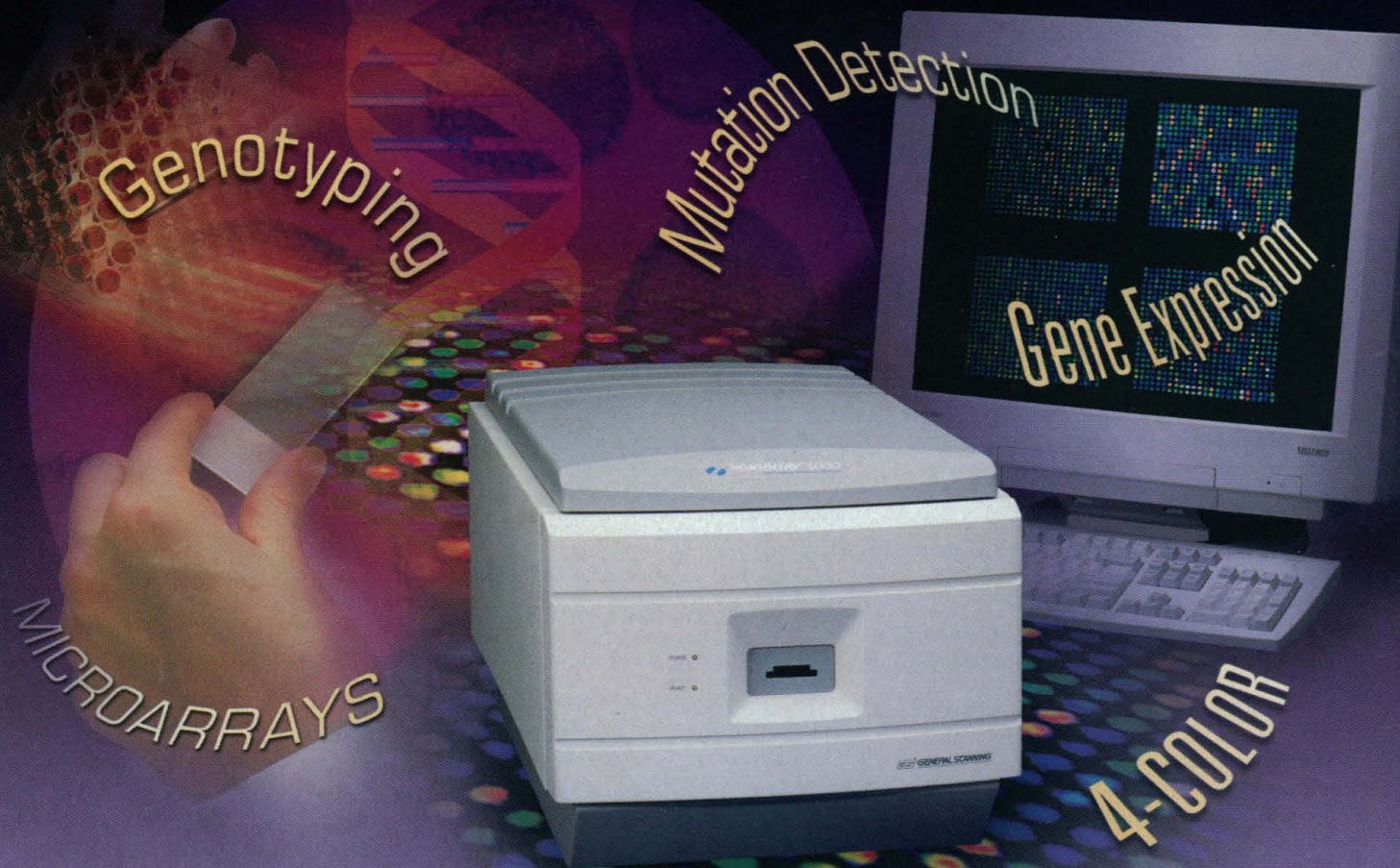


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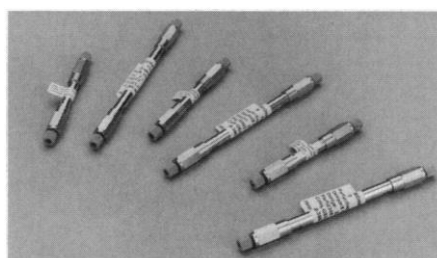
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CONTINUED FROM PAGE 1939

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### LITERATURE

*Total Solution* is a catalog that offers complete research systems for genome profiling and cellular and molecular analysis of cancer, infectious diseases, and genetic disorders. The catalog features highly sensitive, proprietary immunodetection systems. A variety of kits are offered for the detection of antibodies and probes in cells or tissues, on membrane blots and in microtiter plates. Complete kits are available for in situ hybridization and for immunohistochemistry on rodent and non-rodent tissues. The catalog lists more than 250 monoclonal and polyclonal antibodies and oligonucleotide probes to key cellular and disease markers. These include cell cycle markers, apoptosis proteins, oncogenes, cytoskeletal proteins, structural proteins, tumor suppressors, signal transduction molecules, and adhesion molecules.

*Sample Preparation of Electrophoresis Gels for Liquid Scintillation Counting* is an application note that covers the many different types of electrophoresis gels encountered in biochemical research and the different methods needed to prepare them for counting.

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 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. U.S. postage is free.

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Nova Southeastern University (NSU), located on a 232-acre campus in Fort Lauderdale, is the largest independent institution of higher education in Florida and is renowned for its baccalaureate, graduate, and professional programs. NSU is also known as a pioneer and innovator in distance education and on-line learning environments.

NSU invites applications for three Ph.D. faculty (two Biologists and one Chemist) to reach full-time (nine and one-half months) undergraduate students majoring in life science (pre-med) and ocean studies. Programs are delivered by the Farquhar Center for Undergraduate Studies and the NSU Oceanographic Center. The biology positions involve teaching some of the following: introductory biology, genetics, cell biology, and electives (e.g., immunology, embryology, neurobiology, and physiology). The chemistry position requires teaching undergraduate general and organic chemistry. Individuals with outstanding teaching abilities are sought. Developing or bringing a research program is encouraged for summer salary; a 50 percent match for externally funded salary is provided.

NSU offers competitive compensation and outstanding benefits, including tuition waiver. Please send or e-mail a letter of interest, transcript, and three work-related references, indicating position of interest to: (BLG) Nova Southeastern University, Office of Human Resources, 3301 College Avenue, Ft. Lauderdale, FL 33314. E-mail in MS Word or Word/Note Pad format, e-mail: [nsujobs@nsu.nova.edu](mailto:nsujobs@nsu.nova.edu). Visit our website: [www.nova.edu](http://www.nova.edu). Affirmative Action/Equal Opportunity Employer.

### NEUROSCIENCE FACULTY POSITIONS

The Departments of Biology and Psychology at Morehouse College invite applications for tenure-track positions in the area of neuroscience. Candidates should have expertise in neurogenetics, systems-level or behavioral neuroscience. Applicants should have a Ph.D. and postdoctoral experience and a commitment to teaching and research in a liberal arts environment. Neuroscience faculty at Morehouse College have the opportunity to participate in an Atlanta-wide Center for Neuroscience and Behavioral Biology, which includes Emory, Georgia Tech, and Georgia State Universities. Center programs include interinstitutional graduate and undergraduate neuroscience programs, and research support for faculty and Postdoctoral Fellows. For more information on the college and department please visit the biology department website: <http://www.morehouse.edu/Biology/bio.htm>. Please send a curriculum vitae, statement of research and teaching experiences and goals, and three letters of recommendation by May 7, 1999, to: Dr. Melissa Harrington, Chair, Search Committee, Department of Biology, Morehouse College, 830 Westview Drive, Atlanta, GA 30314.

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### FACULTY POSITION VISUAL SCIENCE/ VASCULAR DISEASE RESEARCH

The Department of Ophthalmology and Visual Sciences at the University of Wisconsin-Madison has a tenure-track faculty opening at the level of ASSISTANT PROFESSOR. Candidates must have a Ph.D. or M.D.-Ph.D. degree with postdoctoral research experience, and the ability to develop an independent, extramurally funded research program in the areas of diabetic-related eye diseases, age-related macular degeneration, or angiogenesis. Applicants using innovative molecular, genetic, and/or biochemical approaches are encouraged to apply.

Successful candidates need not have previous experience in the visual system, but must demonstrate an interest in working in this area and in fostering collaborative interaction between research and clinical faculty. Submit a curriculum vitae, a description of current research and plans for the future, and the names of three references to: Arthur Polans, Ph.D., Vice-Chair, Research, Ophthalmology and Visual Sciences, Room K6/466 CSC, 600 Highland Avenue, Madison, WI 53792-4673. March 31, 1999, application deadline.

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Applications and nominations are invited for the position of Chair of the Department of Fisheries and Aquatic Sciences. The Department, founded in 1984, has grown to 17 faculty and offers M.S., non-thesis Master's, and Ph.D. degrees, plus an undergraduate minor. The Department has fresh water, coastal marine, and aquaculture research and extension programs, and has a young, diverse faculty specialized within ecology, physiology, veterinary medicine, and genetics. Particular strengths exist in water quality, the ecology of exploited species, reproduction of aquatic animals, and aquatic animal health.

The candidates (1) must have an earned Doctorate in an appropriate discipline and be eligible for tenure at the rank of Professor; (2) should demonstrate an exceptional record of scholastic and leadership abilities to foster the department's regional, national, and international programs; (3) must possess a strong commitment to administrative duties and responsibilities; and (4) must demonstrate a keen interest in fostering synergistic, collaborative relationships in support of the missions of a land-grant university.

Applications will close May 1, 1999. Nominations are requested by April 15, 1999. A complete application will include a letter of application with a statement of appropriate professional interests, a professional résumé, and the names, addresses, telephone numbers, and e-mail addresses for five references to be contacted. Applications, nominations, and inquiries should be directed to: Dr. William J. Lindberg, Search and Screen Committee Chair, Department of Fisheries and Aquatic Sciences, 7922 N.W. 71st Street, Gainesville, FL 32653-3071. Telephone: 352-392-9617, ext. 239; e-mail: [wjl@ufl.edu](mailto:wjl@ufl.edu).

*The University of Florida is an Equal Employment Opportunity/Equal Access/Affirmative Action Employer. The "government in the sunshine" laws of Florida require all documents relating to the search process, including letters of application/nomination and reference, be available for public inspection.*

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(1) **GEOGRAPHER.** To teach human geography, environmental issues, introduction to environmental studies, and upper-level courses in their specialty. Experience in demographics, urban geography, and remote sensing is helpful.

(2) **POLLUTION SPECIALIST.** To teach environmental issues and intermediate and advanced courses in pollution and environmental chemistry. Experience in remote sensing and/or environmental modeling desirable.

For both positions, field research experience and knowledge of GIS, particularly ARCVIEW, required. Requires strong commitment to undergraduate teaching and development of research involving students. Ph.D. required. Salary range is \$35,846 to \$41,224, may be higher depending on qualifications, experience, and increases in the appropriately established compensation plan. Screening begins April 1, 1999. Send application letter, indicating position applied for, statement of teaching goals/philosophy, résumé, three letters of recommendation, and evidence of completion of degree to: Dr. Lynn Stiles, Dean of Natural Sciences and Mathematics, AA29, Richard Stockton College of New Jersey, P.O. Box 195, Pomona, NJ 08240. Stockton is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. R903914.

The Departments of Neurological Surgery and the Cancer Center at the University of California San Francisco seek an ASSISTANT PROFESSOR IN RESIDENCE to join the Brain Tumor Research Program as a Principal Investigator in the areas of molecular genetics and genomics. This individual should have a Ph.D. and have demonstrated research expertise in these areas as they relate to brain tumor research. The individual will be expected to secure extramural funding to support this research after an initial three-year period of support. Please send curriculum vitae and three letters of recommendation to: Joe Gray, M.D., Cancer Center, 2356 Sutter Street, San Francisco, CA 94143-1297.

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# STA FELLOWSHIPS

## Postdoctoral Fellowships in Japanese Government Laboratories

### STA FELLOWSHIP PROGRAM

#### Introduction:

The Science and Technology Agency (STA), an administrative organ of the Government of Japan, established the STA Fellowship program in 1988 in order to offer opportunities for promising young foreign researchers in the fields of science and technology to conduct research at Japan's national laboratories and public research corporations (excluding universities and university-affiliated institutes).

Since 1989, the Program has been managed by the Japan Science and Technology Corporation (JST), a statutory organization under the supervision of STA, in cooperation with the Japan International Science and Technology Exchange Center (JISTEC). JST also has the strong support and cooperation of the Responsible Organizations listed in Table 1.

#### Tenure and Field of Research:

The tenure will be of:

- 6 months to 2 years (Long-Term Fellowship),
- 1 to 3 months (Short-Term Fellowship),

to be decided upon through negotiation between the candidate and the host institute.

Research fields: Mathematics; Physics; Geology; Electricity; Electrons; Information Engineering; Mechanics; Engineering Works; Architecture; Erosion Control; Landscaping; Chemistry; Metals; Resources Engineering; Medical Science; Pharmaceuticals; Agricultural Technology; Farming; Forestry; Fisheries; others in the Natural Sciences.

Any science or engineering discipline will be considered except military R & D.

#### Fellowship Qualifications:

As a general rule, applicants for long-term fellowships should be no older than 35 years old or should have received their PhDs within the last 6 years.

The short-term fellowships have no age limitation.

Japanese language ability is preferable, but English is sufficient in most cases.

### FELLOWSHIP AWARDS

Fellowships include round-trip air tickets (not available for dependents)

#### I. Long-term fellowship

- 1) Living allowance: ¥270,000 a month.
- 2) Family allowance: ¥50,000 a month if fellows are accompanied by one or more descendants during their tenure.
- 3) Housing: Apartments will normally be provided to awardees.
- 4) An initial international settling-in allowance of ¥200,000. (This amount is less in the case of short stays)
- 5) An annual allowance of up to ¥115,000 for travel within Japan related to research activities.
- 6) If JST accepts a fellow to present the results of his/her research at an international conference abroad, JST will pay up to ¥200,000 for his/her air fare.
- 7) Medical insurance (N.B. not available for dependents).

#### II. Short-term fellowship

- 1) Short-term fellows will receive ¥15,000 per diem for the duration of the fellowship to cover living expenses, initial international moving costs, research-related travelling expenses within Japan, and housing costs.
- 2) Medical Insurance (N.B. not available for dependents)

#### Assistance for Fellows:

Fellows may take advantage of Japanese language courses for Fellows and other services for daily life in Japan through JISTEC.

### APPLICATION PROCEDURE FOR STA FELLOWSHIP (Fig. 1)

Two routes of submitting the application form:

#### I. Application through Responsible Organization (Fig. I-A)

Applicants possessing the nationality or citizenship or permanent resident status of a country listed in Table I should:

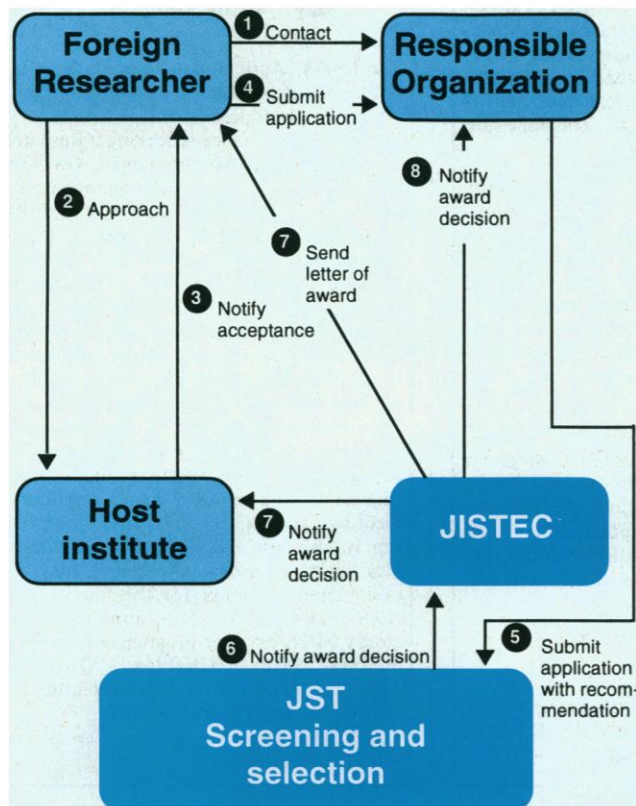
- 1) Contact the Responsible Organization in their country to obtain an application form and information about the host research institutes, which can also be found in the home page of JST.
- 2) Communicate with host research institutes of interest to ascertain their suitability for the applicant's area of specialization. This should be done using the Form I.
- 3) After agreeing with the prospective host institute on the subject of research, the length of tenure and starting date for the fellowship, the applicant should obtain from the institute a formal letter of acceptance expressing its willingness to serve as a host.
- 4) Submit the completed application form and the letter of acceptance to the Responsible Organization concerned. The Responsible Organization will then screen applicants, and submit its recommendations for Fellowship candidates to JST.
- 5) JST will then conduct a further screening and notify successful applicants by sending a Letter of Award through JISTEC. The Responsible Organization and the host research institute concerned will also be informed in this respect.

#### II. Application through Host Research Institutes (Fig I-B)

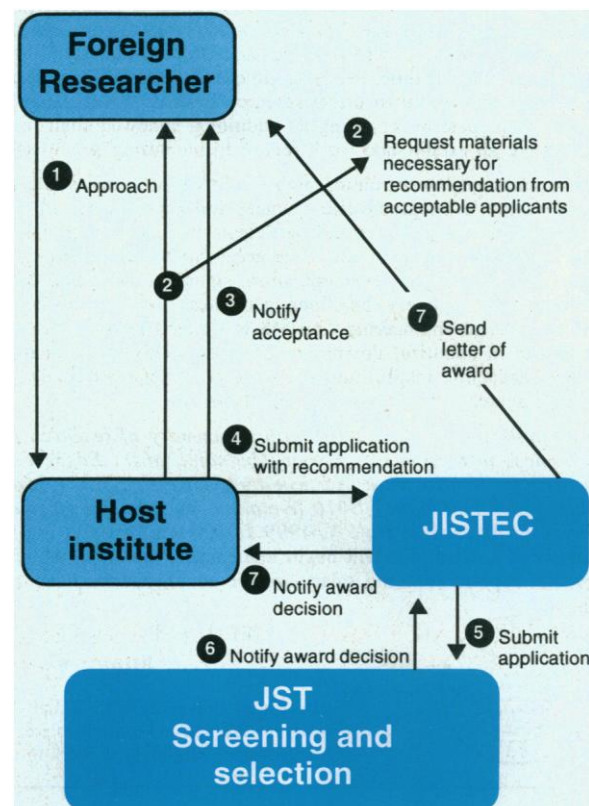
- 1) All applicants can apply by using this procedure, whether or not applicants have nationality or citizenship or permanent resident status of a country. Applicants should send enquiries directly to institutes of interest. This should be done using the Form I, which is available from JST upon request.
- 2) The institute will screen the applicant and, if willing to pursue the application, will request him/her to send pertinent documents and information. These will then be sent along with a letter of recommendation to JST through JISTEC, twice a year, usually in January and in June.
- 3) JST will then conduct a further screening and notify successful applicants by sending a Letter of Award through JISTEC.

**Fig. 1, Procedural Flow from Contact to Receipt of Award**

**Fig. 1-A Application through Responsible Organization**



**Fig. 1-B Application through Host Research Institute**



**Table 1: RESPONSIBLE ORGANIZATIONS**  
**COUNTRY CONTACT**

AUSTRALIA	AUSTRALIAN ACADEMY OF SCIENCE	ITALY	MINISTERO DELL UNIVERSITA E DELLA RICERCA SCIENTIFICA E TECNOLOGICA (MURST)
AUSTRIA	FEDERAL MINISTRY OF SCIENCE AND TRANSPORT	THE NETHERLANDS	TECHONOLOGIESTICHTING STW
CANADA	NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL OF CANADA	NEW ZEALAND	MINISTRY OF RESEARCH, SCIENCE AND TECHNOLOGY
CHINA	MINISTRY OF SCIENCE AND TECHNOLOGY	NORWAY	THE RESEARCH COUNCIL OF NORWAY
GERMANY	ALEXANDER VON HUMBOLDT-STIFTUNG (Long-term fellowship) DEUTSCHER AKADEMISCHER AUSTAUSCH-DIENST (DAAD) (Short-term fellowship)	SWEDEN	SWEDISH NATIONAL BOARD FOR INDUSTRIAL AND TECHNICAL DEVELOPMENT (NUTEK)
FINLAND	ACADEMY OF FINLAND	SWITZERLAND	SWISS NATIONAL SCIENCE FOUNDATION
FRANCE	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)	UNITED KINGDOM	THE ROYAL SOCIETY
INDIA	DEPARTMENT OF SCIENCE AND TECHNOLOGY, Government of India	UNITES STATES	NATIONAL SCIENCE FOUNDATION (NSF) NATIONAL INSTITUTES OF HEALTH (NIH)
		EUROPEAN UNION	EUROPEAN COMMISSION

Further information regarding the fellowship, responsible organizations and host institutes is available from the responsible organizations, JST or JST home page.

Japan Science and Technology Corporation (JST)  
Department of International Affairs  
Address: Kawaguchi Center Bldg., 4-1-8, Hon-cho, Kawaguchi  
Saitama 332-0012 Japan  
Tel: 81-48-226-5630 Fax: 81-48-226-5751  
Web-site: <http://www2jst.go.jp/inter/fellow-e.html>  
E-mail: [iketani@jst.go.jp](mailto:iketani@jst.go.jp) [tezuka@jst.go.jp](mailto:tezuka@jst.go.jp)  
Japan International Science and Technology Center (JISTEC)  
2-20-5, Takezono, Tsukauba City, Ibaraki 305-0032 Japan  
Tel: 81-298-53-8250 Fax: 81-298-53-8260

## George and Edwina Tarry Chair in Ophthalmology

Northwestern University Medical School (NUMS) seeks to fill a newly endowed chair in eye research, the George and Edwina Tarry Chair in Ophthalmology. The ideal candidate will be an internationally recognized scientist conducting independent, original research to investigate mechanisms of eye function, pathophysiology, or eye disease. We seek candidates with a Ph.D., M.D., or M.D./Ph.D. and professional standing commensurate with an appointment as a full-time, tenure-eligible associate or full professor. This chair represents an excellent opportunity to direct research towards novel therapies and clinical applicability and to participate in recruiting an additional endowed chair in eye research. The appointee must have an established track record in mentoring scientists-in-training.

The department has a training program in visual sciences and access to graduate trainees in Northwestern's integrated life sciences and neuroscience Ph.D. programs. Ophthalmology faculty hold several ROIs and participate in four NEI-sponsored multicenter clinical trials. The successful candidate will have access to Northwestern's cutting-edge research collaborators in the areas of gene regulation, signal transduction, cell-cell interactions, structural biology, drug discovery, functional genomics, NMR spectroscopy, cell imaging, neuroscience, and biomedical engineering. NUMS is situated between North Michigan Avenue and Lake Michigan in beautiful downtown Chicago. This ideal location offers close proximity to several academic institutions and cultural centers, providing ample opportunity for stimulating research and an excellent quality of life.

*Applicants should send a CV with a summary of research plans and arrange for three references to be sent to: Enrico Mugnaini, M.D., Edgar F. Stuntz Professor, Director, Institute for Neuroscience, Northwestern University, 5-474 Searle, 320 East Superior Street, Chicago, Illinois 60611-3010 (e-mail: e-mugnaini@nwu.edu). Applications must be received no later than June 1, 1999 for the earliest starting date of September 1, 1999. Review of applications will begin immediately and continue until the position is filled. The level of appointment and salary will be commensurate with qualifications and experience.*



### NORTHWESTERN UNIVERSITY

<http://www.nwu.edu/>

Northwestern University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.



The USDA, Agricultural Research Service, Office of International Research Programs, European Biological Control Laboratory, in Montpellier, France is seeking a Research Plant Pathologist/Microbiologist, GS-434/403-12/13/14. Salary is commensurate with experience (\$45,235 - \$82,638). **Candidates must be U.S. citizens.** The position is responsible for planning, developing, and conducting research to explore for and characterize new plant pathogen natural enemies of major agricultural, rangeland, environmental, and public land weeds in the U.S. that are of foreign origin. This position has specific education and experience requirements, and factors that must be addressed. In order to ensure submission of a complete application, applicants must request a copy of the vacancy announcement by calling (301) 504-1484 or by printing it from the ARS internet website at <http://www.ars.usda.gov>. The vacancy announcement number for this position is ARS-D9E-9165A. This announcement closes 04/26/99. For program information, contact **Dr. Charles Quimby, Montpellier, France, internet address [Chuck.Quimby@wanadoo.fr](mailto:Chuck.Quimby@wanadoo.fr)**. *USDA/ARS is an equal opportunity employer and provider.*

San  
Francisco  
Bay Area

## Computational Biologist

### Metabolex, Inc.

is a growing, privately-held biopharmaceutical company engaged in the discovery and development of novel therapeutics with significant commercial potential to treat diabetes and related metabolic diseases. We're currently working on some extremely promising proprietary programs and product leads, including several exciting partnerships with Parke-Davis and Abbott Laboratories. Our continued progress has created an outstanding opportunity in our Hayward facility for a dedicated research scientist to join our expanding Genomics team.

You will be a key member of an interdisciplinary team of researchers using expressed-gene catalogs in conjunction with gene expression profiling technologies to identify novel therapeutic targets. Your focus will be to manage/analyze the flow of information from our internal EST program and expression profiling experiments using micro-array technology, as well as evaluate downstream analysis of identified gene structure/function. The position requires a Ph.D. or MS in computer science or a molecular biology-based discipline along with documented expertise in the complementary field; a solid understanding of DNA and protein sequence databases/analysis tools, including 2+ years of postgraduate experience; and demonstrated UNIX expertise, that includes solid system administration experience and programming skills (Perl preferred). Prior participation in a high-throughput genomics programs involving DNA sequencing, gene expression profiling or genetics is preferred. Familiarity with Oracle-based database architectures and Sun workstations/servers is desirable.

Metabolex offers competitive salaries/benefits, attractive stock options, and a collaborative and stimulating research environment that recognizes and rewards achievement. Please forward resume, cover letter, and salary history to: Metabolex, Inc., HR Dept., Attn: Job# SC0319-CB, 3876 Bay Center Place, Hayward, CA 94545; fax: (510) 293-6857; email: [dpetty@metabolex.com](mailto:dpetty@metabolex.com). EOE m/f/d/v

[www.metabolex.com](http://www.metabolex.com)



Novartis Institute for Functional Genomics, a stable, fully funded biotech start-up based in San Diego, CA has the following career opportunity:

### POSTDOCTORAL POSITION IN BRAIN GENOMICS

This San Diego-based position is part of a joint project between the Novartis Institute of Functional Genomics and the Department of Molecular Biology at Princeton University. We are seeking a highly motivated individual to apply modern genomics tools to neurobiological problems. The successful candidate will have a Ph.D. or equivalent degree, as well as a strong background in molecular neurobiology. Informatics experience preferred.

Novartis offers excellent compensation and a great benefits package, including 401k. For immediate and confidential consideration, please send curriculum vitae and references to: HR Dept- BG/SCI, C/O Novartis Agricultural Discovery Institute, Inc., 3050 Science Park Road, Suite 102, San Diego, CA 92121-1102; Fax: (619) 784-8995. EOE.

# BIOGEN

## A UNIQUE OPPORTUNITY AND CHALLENGE

**Biogen has established a unique record of success as one of the world's premier biotechnology companies. Pioneering research by our scientists has led to the introduction of several important new medical therapies, the world's leading therapy for relapsing multiple sclerosis. We are staking our future growth on the development of our next generation of pharmaceutical products, five of which are currently being tested in human clinical trials. Today, we are seeking the following committed professionals to join our expanding team.**

## INTERNATIONAL MEDICAL INFORMATION MANAGER

You will be responsible for providing medical and scientific information to support the Company's activities and its products according to the highest standards of quality.

In this key position, you will provide timely and accurate information on Biogen's products and related therapeutic areas to our external customers: physicians, pharmacists and nurses. You will be responsible for establishing strong liaison with our internal customers including Marketing, Sales, Regulatory and Drug Safety in order to support them in their activities.

You will also be actively involved in the development and implementation of information sources: documentation, databases, filing and information channels.

### YOUR PROFILE :

- Life science degree, ideally in Medicine, with previous experience in medical information roles within the pharmaceutical/biotechnology industry.
- Excellent computer skills and ability to use information databases and literature searching. ■ Excellent medical writing and presentation skills.
- Good interpersonal skills. ■ Open personality, strict ethics, and analytical mind.
- Fluency in English and knowledge of another European language will be a plus.

## INTERNATIONAL ASSOCIATE MEDICAL DIRECTOR

You will be responsible for ensuring medical support in the field e.g. neurologists, pharmacists and key opinion leaders in our activities.

You will manage an already well established Drug Safety group, give medical input and supervise the enquiries (physicians, pharmacists, health authorities) regarding our products and related therapeutic areas.

In this key position, you should establish strong liaison with our internal customers including Marketing, Sales, and Regulatory Affairs to keep them permanently updated on medical issues through evaluation, analysis and preparation of written summaries of relevant studies, seminars, articles, interviews. You will provide input for marketing and sales strategy and in our relationships with health authorities.

You will report to the International Medical Director.

### YOUR PROFILE :

- Degree in Medicine, with previous experience in the pharmaceutical industry. ■ Experience in Drug Safety is essential. ■ Excellent medical writing and presentation skills. ■ Interpersonal skills and open personality; you should be a strong team-player and an entrepreneurial individual enjoying a multicultural environment. ■ Fluency in English and knowledge of another European language will be a plus.

## INTERNATIONAL REGULATORY AFFAIRS ASSOCIATES MANAGERS

You will be involved in the area of commercial regulatory issues or product development.

You will assist in the regulatory management of dossier preparations for marketing authorisations, variations and clinical trials submissions worldwide except USA and Canada.

You will be responsible for the formal checking of this regulatory progress and the appropriate communication within other departments.

You will provide regulatory input into development programs by keeping abreast of new guidelines and regulations. You will perform database searches and prepare reports at company or agency requests.

### YOUR PROFILE :

- Dynamic and resourceful person with a potential for development, with 1-3 years experience in Regulatory Affairs in an international company.

- Degree in medical science (preferably pharmacy). ■ Ability to work across cultures, in teamwork with effective and timely management of assignments.
- Excellent organisational and document management skills. ■ Fluency in English.

### YOUR PROFILE :

- Successful international Regulatory Affairs experience in a pharmaceutical / biotechnology company. ■ Experience with alternative drug delivery systems an advantage.

**All positions will be based in our International HQ in Paris.**

**We offer both a highly competitive salary and benefits package ; and above all, the opportunity of a genuine long-term career development in a major biotechnology company with an exciting, indeed unique, future.**

Applicants are invited to send their CV to : **BIOGEN - Human Resources Department**  
"Le Capitole" - 55 avenue des Champs Pierreux - 92012 NANTERRE - France.





## RESEARCH FACULTY POSITION AT CHILDRENS HOSPITAL LOS ANGELES IN HOST DEFENSE

Childrens Hospital Los Angeles is seeking to expand its research program in Host Defense with the recruitment of a new research faculty member. This is a tenure-track position in the Department of Pediatrics and Molecular Microbiology and Immunology at the University of Southern California School of Medicine. This position includes a minimum of three years of full support and substantial start-up funds. The position is for an individual with an MD, PhD, or MD/PhD who has developed scientific background and skills in molecular approaches to cell biology (particularly vascular biology) and microbial pathogenesis. This individual will complement a leading CNS pathogenesis research program in the country (led by Kwang Sik Kim, MD) and will be a member of the Division of Infectious Diseases. This faculty position is at the Assistant/Associate Professor level, depending upon experience. Interested individuals should submit their curriculum vitae, a statement of their research interests, and three letters of recommendations to: **Yves A. De Clerck, M.D., Professor of Pediatrics, Biochemistry and Molecular Biology; Vice-President, Research; Director, Research Institute, Childrens Hospital Los Angeles, 4650 Sunset Blvd., MS #84, Los Angeles, CA 90027.**

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## Request for Proposals

COORDINATING CENTER TO FACILITATE STUDY OF THE GENETIC SUSCEPTIBILITY TO DIABETIC NEPHROPATHY IN TYPE 1 DIABETES

### Purpose:

The establishment of a coordinating center to facilitate study of the genetic susceptibility to diabetic nephropathy in Type 1 diabetes.

The long-term goal is to develop a data resource suitable for enhancing genetic studies of the complications of diabetes, particularly nephropathy. The center will be the principal contact among families, physicians, and scientists participating in this and future studies.

The center will receive, code, store, and maintain the database of information obtained from all tests.

Interested parties should refer to the Juvenile Diabetes Foundation Web site at [www.jdfcure.org](http://www.jdfcure.org) for the full text of this RFP.

Submit letters of  
intent addressed to:

**Marie Nierras, Ph.D.**  
Juvenile Diabetes  
Foundation International  
120 Wall Street, 19th Floor  
New York, NY 10005-4001  
Phone: (212) 479-7589  
Email: [cnieras@jdfcure.org](mailto:cnieras@jdfcure.org)

Or:

**Elaine Young, Ph.D.**  
JuvenileDiabetes  
Foundation International  
1400 I Street, NW, Suite 530  
Washington, DC, 20005  
Phone: (212) 371-9746, Ext. 15  
Email: [eyoung@jdfcure.org](mailto:eyoung@jdfcure.org)

Letters of intent are due no later than **April 30, 1999**, and applicants will be notified within 4 weeks



Juvenile Diabetes Foundation International  
The Diabetes Research Foundation

## Plant Genome Bioinformatics at the USDA/ARS Center for Bioinformatics and Comparative Genomics, Ithaca, NY

Two permanent USDA-ARS positions are available for plant genome database curators at the USDA-ARS Center for Bioinformatics and Comparative Genomics (CBCG) on the campus of Cornell University in Ithaca, NY. Successful candidates will have primary responsibility for either SolGenes (a database for the Solanaceae) or for RiceGenes (for rice and related grasses). Both databases contain a wide variety of scientific information and emphasize comparisons between species. Curators will be responsible for database content, design and evolution and are expected to coordinate closely with the scientific advisors for the database projects, Dr. Steven Tanksley (SolGenes) and Dr. Susan McCouch (RiceGenes) and their research programs. Interactions and opportunities for collaborations with researchers within the CBCG and other ARS units, the Institute for Computational Genomics at the Cornell Theory Center and with other researchers involved with the Cornell Genomics Initiative are strongly encouraged. Candidates must be US citizens and have research experience in biology (Ph.D. preferred). Familiarity with databases and scripting languages helpful. Salary commensurate with experience (\$39,960-\$74,035). For information on the CBCG or positions contact: **Dr. Samuel W. Cartinhour, [sc167@cornell.edu](mailto:sc167@cornell.edu)**. For application procedures and other information, call **Tiffany Fisk (315-787-2307)** or download from [www.ars.usda.gov](http://www.ars.usda.gov), Job Opportunities. Applications must be postmarked by April 19, 1999.

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## Pathology Chair UCI

University of California, Irvine invites application and nominations for the Chair of the Department of Pathology. We are seeking an outstanding individual with (I) an active, internationally-recognized research program and (II) the proven leadership and personal skills to direct a research-oriented department with important educational and clinical responsibilities in the College of Medicine and at three teaching hospitals. The new chair will have the resources to expand the research, educational, and clinical missions of the department. Applications and nominations should be sent to:

**Alan Barbour, M.D., Chair, Pathology Chair Search Committee, Department of Microbiology & Molecular Genetics, University of California, Irvine, CA 92697-4025.**

E-mail: [abarbour@uci.edu](mailto:abarbour@uci.edu).

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## ORTHO BIOTECH

Raritan, NJ

### Sr. Scientist/Scientist/ Associate Scientist

#### Purification Process Development

Challenge your chemistry expertise as you provide process development and technology transfer of chromatography-related process improvements to EPO and OKT3 manufacture. You'll have the opportunity to provide isolation/quality evaluation, virus/process validations, and act as a technical liaison with biopharmaceutical manufacturing.

A Ph.D. in Biochemistry/Protein Chemistry is required, with 2+ years' of industrial experience coupled with a solid background in protein structure and characterization. Post-Ph.D. experience in biopharmaceutical process development and validation of manufacturing operations is also necessary. Applicants with a BS/MS in Chemistry, a strong protein chemistry/biochemistry background, and 3+ years' experience in protein Chromatography and biopharm manufacturing will also be considered. Experience in the following is also critical: scale-up and manufacturing in protein purification, process validation, downstream recovery of biopharmaceuticals, and all phases of column chromatography. Additionally, experience in process yield improvement, impurity profiling, chromatography packing techniques is required, as is HPLC, IEF, gel electrophoresis, protein stability, peptide mapping, carbohydrate analysis, Western Blot, and ELISA assays. A knowledge of current cGMPs and FDA regulations regarding all aspects of biopharmaceutical manufacture is essential. Cell culture and cross-functional working experience is a definite plus.

Ranked consistently by *FORTUNE* as one of "America's Most Admired Companies" and by *Working Mother* as one of the "100 Best Companies for Working Mothers," Johnson & Johnson offers competitive salaries and a full array of benefits, including medical/dental, 401(k) and pension plans, and a comprehensive wellness program.

For consideration, we strongly encourage individuals to apply on-line at:

**[www.jnj.com](http://www.jnj.com)**

If you do not have Internet access, please forward a scannable resume and salary requirement to: **Dept. #3049, Johnson & Johnson Recruiting, PO Box 16597, New Brunswick, NJ 08906-6597.** An equal opportunity employer, m/f/d/v, committed to diversity in the workplace.

**Johnson & Johnson**

**UK**

## College of Medicine University of Kentucky

### Director of the Spinal Cord and Brain Injury Research Center

The University of Kentucky is rapidly expanding its research enterprise and invites applications for Director of the Spinal Cord and Brain Injury Research Center (SCoBIRC). This Center is made possible through the confluence of resources from the Kentucky Spinal Cord and Head Injury Research Trust (KSCHIRT), new state funding for the University of Kentucky, and the support of the College of Medicine.

The Director will hire additional faculty for the Center, will have a five-year core grant from the Trust that can be used for graduate student and postdoctoral support as well as start-up costs for new faculty. Suitable space in which to develop the Center will be identified by the College. In addition to recruiting new faculty, the Director is expected to bring together current clinical and basic scientists working on spinal cord and head injury research; increase the national and regional visibility of the Center; and establish a nationally recognized center of excellence. The Director will have the advantage of working with a "critical mass" of nationally and internationally respected group of researchers with expertise across the spectrum of neurosciences, including many who are focusing on spinal cord and brain injury and including a head trauma research group with active, NIH funding.

The Director will report to the Associate Dean for Basic Sciences and Research in the College of Medicine. The Director should have a Ph.D. and/or M.D. and academic accomplishments sufficient to warrant appointment as a full professor in one of the College's basic science or clinical departments.

Interested individuals should send a letter describing their interest in this position and a curriculum vita to:

David Watt  
Associate Dean for Basic Sciences and Research  
College of Medicine  
Chandler Medical Center MN-144  
University of Kentucky  
Lexington, KY 40536

The Search Committee will begin reviewing applications on May 1 and will continue until the position is filled. Women and minority candidates are encouraged to apply. The University of Kentucky is an Affirmative Action/Equal Opportunity Employer.



Merck Research Laboratories in Rahway, New Jersey, a world leader in biological and pharmaceutical research, currently has a postdoctoral position available in the Department of Endocrinology and Cell Biochemistry.

## Endocrinology and Cell Biochemistry Postdoctoral Fellow

The major focus of our group is the study of nuclear receptor regulation of gene transcription. The ideal candidate should be a highly motivated, innovative scientist with expertise in molecular biology and protein chemistry. This is your opportunity to join a multi-functional group of scientists with expertise in molecular biology, cell biology, biochemistry and physiology; and to work closely with the Medicinal Chemistry, Metabolism and Pharmacology departments.

Merck offers opportunities to conduct top-level science and pleasant working conditions at our Rahway, NJ facility, approximately 25 miles from New York City. For consideration, send your resume/cv and cover letter to: **Merck Research Laboratories, Human Resources, P.O. Box 2000, Ad #85, RY80-A3, Rahway, NJ 07065.** EEO/AA/VH Employer.



## Director Biophysics Research Institute

Medical College of Ohio



The Medical College of Wisconsin is seeking an outstanding leader and scientist to direct a multidisciplinary group with research in:

- ♦ Free Radical Biology
- ♦ Functional MRI of the Brain
- ♦ Site-Directed Spin Labeling
- ♦ In Vivo MRS
- ♦ Metallo Protein Structure
- ♦ Scientific Computing in Neuroscience

The Institute consists of 10 faculty as well as students, fellows and engineering and research support staff. It encompasses state-of-the-art ESR and fMRI instrumentation, the National Biomedical ESR Center and laboratories for software, instrument and coil development. Other available facilities include NMR, MS and fluorescence instrumentation. The Institute has an active graduate student training program.

Candidates for Director should have a demonstrated broad appreciation and knowledge of spectroscopic approaches to biomedical research, a record of leadership and administrative abilities, a strong record of research accomplishments and hold a PhD and/or MD degree. The candidate should also show evidence of a strong, extramurally funded research program.

Interested candidates should send a curriculum vitae to: **Biophysics Search Committee, c/o Dean's Office, Medical College of Wisconsin, 8701 Watertown Plank Rd., Milwaukee, WI 53226.** E-mail: [mrussell@mcw.edu](mailto:mrussell@mcw.edu). For information about the Institute, please refer to <http://www.biophysics.mcw.edu>.

EOE/AA/M/F/D/V

## Cold Spring Harbor Meetings

### Biology of Proteolysis

May 5 - 9, 1999

Organized by:

Charles S. Craik, *University of California, San Francisco*  
Susan Gottesman, *National Cancer Institute*  
Mark Hochstrasser, *University of Chicago*  
Yuri Lazebnik, *Cold Spring Harbor Laboratory*

Topics include: Signal Transduction • Protease Complexes & cascades • Development • Cell Cycle • Chaperones & Protein Quality Control • Infectious Diseases & Host Pathogen Interaction • Neoplasia • Cell Death

### Tyrosine Phosphorylation & Cell Signaling

May 12 - 16, 1999

Organized by:

Sara Courtneidge, *SUGEN, Inc.*  
Ben Neel, *Harvard Medical School*  
Nick Tonks, *Cold Spring Harbor Laboratory*

Topics include: RTK Signalling and Disease Growth Control • Hematopoietic Cellular Signalling • Tyrosine Phosphorylation in the Immune System • Cytoskeleton and Cell Adhesion • Neuronal Signaling • Development • Human Disease

We encourage online registration and abstract submission!

## Cold Spring Harbor Laboratory

Meetings & Courses Office

1 Bangtown Rd

Cold Spring Harbor, NY 11724-2213

Email: [meetings@cshl.org](mailto:meetings@cshl.org)

Fax: 516-367-8845 Phone: 516-367-8346

<http://www.cshl.org/meetings/>



## Director, Office of Reports and Analysis National Institutes of Health

The NIH invites applications for the position of Director, Office of Reports and Analysis (ORA), NIH, salary range currently \$110,351 - \$125,900. The Director, ORA provides mission-critical scientific/administrative data and information on the funding of biomedical and bio-behavioral research by the Federal Government to a broad cross-section of organizations such as the White House, Congress, the National Academy of Sciences and the World Health Organization. Data distribution has a direct national and international impact on funding plans and on allocation of NIH funds. Is the senior NIH official for developing and disseminating policy concerning extramural research information, which often materially affects the NIH Health Research Agenda. Serves as focal point for information about NIH research funding to NIH Institutes and Centers, and other Federal agencies. Manages the Office which is composed of three Divisions and approximately 36 staff. Also serves as Deputy and Principal Advisor to the Deputy Director for Extramural Research, NIH on biomedical and clinical extramural research programs.

Applicants must possess senior level professional experience in biomedical research information systems and data analysis that demonstrates the following *mandatory qualifications*: (1) Skill in development and use of biomedical research information systems and policies, and in data analysis and interpretation related to biomedical research program funding; and (2) Ability to manage an organization including establishing plans and policies, evaluating programs, developing and presenting budgets, and building and maintaining a culturally diverse staff.

Submit CV or resume, and bibliography. Vacancy announcement should be obtained by calling 301-402-4111 (#OD-99-1004). TDD is 301-402-1970. Mail applications to **NATIONAL INSTITUTES OF HEALTH, OFFICE OF THE DIRECTOR EXECUTIVE OFFICE, ATTN: SUSAN ELDER, BLDG 31/ROOM 1C17, 31 CENTER DR MSC 2264, BETHESDA, MD 20892-2264.** Application process questions may be addressed to Susan Elder on 301-435-2162.

- Applicants with access to Internet's World Wide Web may browse NIH Home Page to view announcement and may apply through Web at [URL http://helix.nih.gov:8001/jobs/](http://helix.nih.gov:8001/jobs/)

- Applicants may browse Office of Extramural Research Home Page at <http://www.nih.gov/grants/oer.htm>

- Applicants may E-Mail materials to [Susan\\_Elder@nih.gov](mailto:Susan_Elder@nih.gov)

**APPLICATIONS MUST BE POSTMARKED OR TRANSMISSIONS RECEIVED NO LATER THAN March 31, 1999.**

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## MAYO CLINIC

**Research on zinc finger transcriptional repressors, epithelial cell growth, and cancer.** Postdoctoral position immediately available for a highly motivated individual to study the role of novel zinc finger proteins in transcriptional repression and in the regulation of normal and neoplastic pancreatic epithelial cell growth. (J Clin Invest 1997;99(10):2365; J Biol Chem 1998;273(40):25973) The successful candidate will be part of a multidisciplinary team using state-of-the-art molecular and cell biological techniques. Applicant should have previous experience in protein chemistry and/or molecular biology. Send curriculum vitae and three references to:

**Raul Urrutia, MD**

**GI Research Unit**

**Mayo Clinic, Alfred 2-435**

**200 First Street SW**

**Rochester, MN 55905**

**Fax: 507/255-6318**

**E-mail: [urrutia.raul@mayo.edu](mailto:urrutia.raul@mayo.edu)**

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## SENIOR STAFF SCIENTIST

### DIRECTOR, TRAUMA RESEARCH LABORATORY

St. Joseph's Hospital and Medical Center, a Level I Trauma Center located in Phoenix, Arizona, is seeking a Director of the Trauma Research Laboratory. Applicants must have a Ph.D., M.D. or D.Sc., degree and 5+ years research experience. Excellent communication, administrative and research skills are essential. The successful candidate will be expected to solicit and maintain grant funds, initiate and conduct research, as well as present and publish scientific reports.

Interested applicants send Curriculum Vitae and cover letter detailing experience and research interests to:

**Scott Petersen, M.D., Medical Director, Trauma Center, St. Joseph's Hospital and Medical Center, 350 W. Thomas Rd., Phoenix, AZ 85013. Phone: (602) 406-3157. Fax: (602) 406-4113.**

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**St. Joseph's Hospital  
and Medical Center**

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## NATIONAL INSTITUTES OF HEALTH

### NATIONAL CENTER FOR RESEARCH RESOURCES

#### Health Scientist Administrator, GS-601-13/14

(Announcement Number NCRR 99-9)

The National Center for Research Resources (NCRR) invites applications for two Health Scientist Administrator positions, NCRR, NIH. The incumbents of these positions will be responsible for providing technical leadership and scientific guidance in the planning, development, evaluation, and administration of resource grants and contracts for the Biomedical Technology (BT) area of the NCRR. Some of the major professional duties the incumbents perform include: 1) assess national biomedical technology resource needs through examination of technical publications, databases, attendance and occasional presentations at local and national scientific meetings, site visits to academic and industrial facilities, and by obtaining expert scientific opinion through use of discussion groups, workshops, and conferences; 2) interpret statutes, policies, and procedures governing operation of the BT programs; 3) advise applicants in development of their plans for developing research resources; 4) interact closely with scientific review officials within NIH; and 5) perform related scientific and administrative functions, including negotiations with officials of leading national universities and research institutions, ensuring effective allocation of program resources, and evaluating proposal review in light of programmatic priorities. Incumbents are required to be knowledgeable of the technological areas relevant to biomedical research, with emphasis on technologies supported by the BT area, evidence of scholarly activities through conducting and guiding technical research at the post-doctoral level, and a record of publication in peer-reviewed journals.

Applicants are encouraged to address the following knowledges, skills, and abilities: (1) Professional knowledge of the principles, theories, practices, and application of state-of-the-art technologies and methods, particularly as applied to biophysical and structural biological and/or molecular genetics applications in multi-disciplinary biomedical research; (2) Ability to write and communicate clearly, logically and persuasively on complex scientific topics to a diverse scientific and non-scientific audience; (3) Ability to organize, plan and manage a scientific program and to carry out grant-related administrative functions; (4) Ability to meet and deal effectively with scientists, institutional officials and other relevant professionals. These are permanent full-time positions with a salary range of \$58,027 to \$89,142 per annum commensurate with qualifications. A recruitment bonus of up to 25% of base pay may be available to a non-federal selectee for this position. A relocation bonus of up to 25% of base pay (subject to approval) may be available to a permanent Federal employee who must relocate to accept this position.

Send applications/resumes to Mr. Sean Stroud, National Institutes of Health, National Center for Research Resources (NCRR), Building 31, Room 3B43, 31 Center Drive MSC 2131, Bethesda, MD 20892-2131. For a copy of the full announcement contact Mr. Stroud at NCRR on (301) 496-1524. Deadline for applications is **March 29, 1999**. Please note that applications must be postmarked by deadline date.

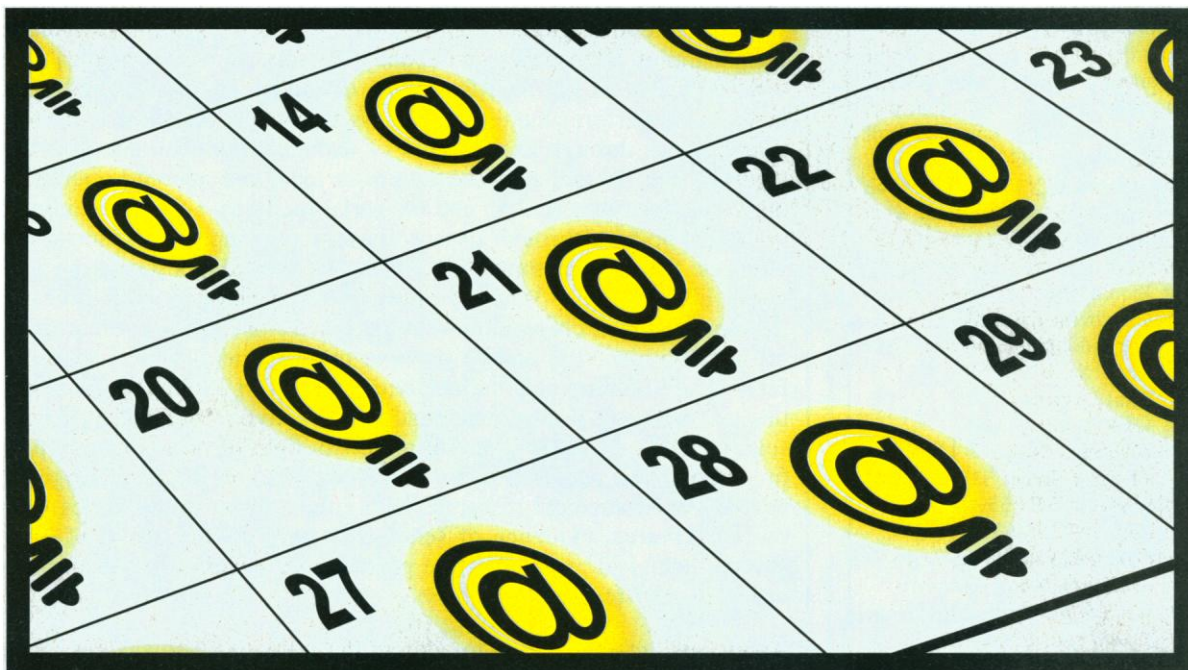
**Public Health Service Commissioned Officers** interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

- Applicants with access to Internet's Worldwide Web may browse the NCRR Home Page to view the full text vacancy announcement at <http://www.nih.ncrr.gov>

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NRC, Canada's top R&D organization, helps its industry partners become stronger global competitors. Currently, NRC's **Biotechnology Research Institute (BRI)** is looking for those rare people who can help further our record of excellence.

**You can make a difference at NRC!**

## Research Scientists

**Biotechnology Research Institute (BRI)  
Montreal, Quebec**

The Enzymology Group is seeking highly qualified scientists to fill term and continuing positions at the Research Officer, Research Associate and postdoctoral levels. The Group is currently participating in several multidisciplinary projects that involve the identification, cloning and expression of novel enzymes, coupled with the study of the molecular bases of their activity and specificity in order to establish the molecular determinants of these properties relevant for drug design. Cysteine proteases constitute the main class of enzymes presently under study.

### Your Challenge

The main component of research activities will consist in the application of molecular biology and cellular biology techniques to the functional characterization of enzymes and, in the case of novel speculative targets, to the elucidation of the physiological roles of these enzymes and their validation as potential targets for therapeutic intervention. The Research Officer will initially participate in ongoing projects but will be expected to develop an active research program in line with the goals of the Enzymology Group and the mission of the Institute.

### Your Credentials

You must possess extensive knowledge of molecular biology, cell biology, and preferably enzymology. Experience using genomic information is an important asset. All positions require a Ph.D. in biochemistry, biology or related field. For the more senior position, many years of relevant experience and a significant publication record in related areas with an emphasis on applications in the pharmaceutical field is also requested.

Knowledge of English or French is required.

The salary range for these positions varies according to qualifications and experience.

As an employer who values diversity in its workforce, we encourage candidates to self identify as members of the following designated groups: women, visible minorities, Aboriginal peoples and persons with disabilities.

To explore this opportunity, fax your application by April 16, 1999, **indicating reference number RB98-35**, to: **Liette Brazeau at (514) 496-6277**. You can apply on our Web site at [www.nrc.ca/careers](http://www.nrc.ca/careers)

*We thank all those who apply and advise that only those selected for further consideration will be contacted.*

*Vous pouvez obtenir ces renseignements en français.*



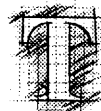
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pharmaceutical products aggressively working toward improving world health. A multi-national company, SmithKline Beecham is comprised of exceptional people who work with dedication and passion.

### Regional Medical Associate

We currently have an opening that covers Oregon through Northern California. The high energy individual we seek will establish relationships with a broad range of healthcare providers in both academic and patient care communities, act as an educator providing scientific/clinical information on our products, and identify/develop customer opportunities. Additionally, you will source new opportunities for support grants and design/deliver symposia and continuing education seminars for healthcare providers (e.g., MDs, RPhs, RNs).

To qualify, a PharmD or PhD along with excellent communication skills are necessary. Pharmacology, toxicology, microbiology, or related life science backgrounds are preferred. 35% travel is required.

Make a difference, contribute toward change, and be recognized for it. Please forward two copies of your resume to: Job Code: RMACA, SmithKline Beecham, 1500 West El Camino Avenue, #356, Sacramento, CA 95833-1945. Indicating Job Code is essential. No phone calls, please. For more information and to apply online, visit our website at [www.sb.com/careers](http://www.sb.com/careers)

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## POSITIONS OPEN

### TEXAS A&M UNIVERSITY DEPARTMENT OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH

The Department of Environmental and Occupational Health of the Texas A&M School of Rural Public Health invites applications for a tenure-track state-funded 12-month **EPIDEMIOLOGIST** position at the **ASSISTANT/ASSOCIATE PROFESSOR** level. The successful candidate will have an established research record with experience in molecular, genetic, or environmental epidemiology. Primary criteria for appointment will be a publication record in peer-reviewed journals, demonstrated accomplishments in securing extramural grants, and evidence of successful teaching.

Applicants should hold a Doctorate in epidemiology, or an M.D. or other terminal health degrees with an M.S. or M.P.H. in epidemiology.

Texas A&M is a land, sea, and space grant university with more than 43,000 undergraduate and graduate students, plus medical and veterinary students. A broad range of interdisciplinary research is possible with established campus-wide programs in disciplines such as toxicology, genetics, neuroscience, and nutrition. College Station, home to Texas A&M University, is a mid-sized city located within an hour and a half of both Houston and Austin, Texas.

Candidates should send a curriculum vitae, letter of application, and names and addresses of three references to: **Chair, Molecular Epidemiology Search Committee, Department of Environmental and Occupational Health, School of Rural Public Health, Texas A&M University Health Science Center, College Station, TX 77843-1266.** For additional information, contact: **Dr. Ramos, Telephone: 409-845-2387.** Review of applications will begin on March 20, 1999, and continue until position is filled.

### JUNIOR FACULTY POSITION

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

### RESEARCH ASSISTANT PROFESSOR

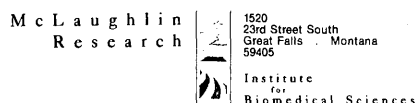
The Liver Failure Unit in the Department of Surgery and the Burn and Shock Trauma Institute at Loyola University Chicago-Stritch School of Medicine seeks a research-focused M.D. and/or Ph.D. with strengths in the area of the cell and molecular biology of hepatic injury. Two or more years of relevant postdoctoral experience are required. Candidates should submit a cover letter including three references and a curriculum vitae to:

**John Brems, M.D.**  
Director of the Liver Failure Unit  
Department of Surgery  
Building 110, Room 3268  
Loyola University Medical Center  
2160 South First Avenue  
Maywood, IL 60153

*Loyola University Medical Center is an Affirmative Action/Equal Opportunity Employer.*

The University of Florida seeks a full-time, non-tenure-track **RESEARCH ASSISTANT PROFESSOR** for the Department of Medicine, Division of Nephrology. Ph.D. degree with research experience in cell signaling systems. Responsibilities would include research in cell signaling systems, G-protein-dependent signaling systems, and cultured cell expression systems of proteins. Second messenger studies and cell structure analysis. Salary and benefits commensurate with experience. Recruiting deadline: April 8, 1999. Anticipated start date: May 1, 1999. Please respond with curriculum vitae to: **R. Tyler Miller, M.D., Associate Professor in Medicine, Box 100224, JHMC, Gainesville, FL 32610.** *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN



### FACULTY POSITIONS NEUROGENETICS AND NEUROSCIENCE

McLaughlin Research Institute is recruiting **SCIENTIFIC STAFF** members at all levels. Candidates should possess a Doctoral degree and a record of research excellence as a Postdoctoral Fellow or independent Investigator. The applicant should have, or be capable of developing, a productive independent research program that is able to compete successfully for extramural grant funding. Applicants with interests in neurodegenerative diseases or hearing are particularly encouraged to apply.

McLaughlin Research Institute offers a unique opportunity for research programs with an emphasis in mammalian genetics. The Institute is a small nonprofit organization and offers a nonbureaucratic, interactive research environment. The Institute is housed in a spacious new research building with an excellent facility that includes a transgenic service.

Applications, including names of individuals we may contact for references, should be sent to:

**George A. Carlson, Ph.D.**  
Director, McLaughlin Research Institute  
1520 23rd Street South  
Great Falls, MT 59405

For additional information contact **George Carlson, Bill Crain, John Mercer, or John Bermingham** at McLaughlin Research Institute, or any of the following members of our Scientific Advisory Committee: **Irv Weissman, David Baltimore, David Cameron, Neal Copeland, Jeff Frelinger, Leroy Hood, or Nancy Jenkins.**

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### ASSISTANT PROFESSOR NEURAL CODING AND REPRESENTATION NEUROSCIENCE/NEUROPHYSIOLOGY

We invite applications for a tenure-track joint appointment Assistant Professor position in the Divisions of Biology and Engineering and Applied Science, within the Computation and Neural Systems Program at the California Institute of Technology. The initial appointment term is four years, and appointment is contingent upon completion of all the requirements for a Ph.D.

The applicant should conduct research directed at understanding the neuronal basis of encoding, decoding, and representing information in the brain in any neurobiological model system. It is expected that the applicant's research program will include both theoretical and experimental components.

We are seeking highly qualified candidates who are committed to a career in research and teaching. Applicants should submit a curriculum vitae, a description of research, and three publications, and arrange for three letters of recommendation to be sent to: **Prof. Christof Koch, Division of Biology 139-74, Caltech, Pasadena, CA 91125.**

*The California Institute of Technology is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.*

### ASSISTANT PROFESSOR BACTERIAL PATHOGENESIS

The Department of Microbiology, Molecular Genetics, and Immunology at the University of Kansas Medical Center invites applications for a tenure-track faculty appointment at the Assistant Professor level. We are particularly interested in candidates using molecular genetic approaches to understand the molecular basis of diseases caused by bacterial pathogens. All candidates must have a Ph.D. or M.D., postdoctoral experience, and a strong record of research accomplishments. The successful candidate will be expected to establish a research program with extramural funding and participate in the teaching of graduate and medical students. An outstanding start-up package with competitive salary and fringe benefits is available. Replies, including curriculum vitae, research plan, and names of at least three references, should be sent to: **Dr. Joe Lutkenhaus, Chairman, Search Committee, Department of Microbiology, Molecular Genetics and Immunology, University of Kansas Medical Center, Kansas City, KS 66160.** Review of candidates will begin on April 15, 1999, and continue until the position is filled. *The University of Kansas Medical Center is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### UNIVERSITY OF SOUTH CAROLINA SCHOOL OF MEDICINE

The University of South Carolina (USC) School of Medicine has recently established a research initiative in cardiovascular sciences and cancer biology. Several **FACULTY** and **POSTDOCTORAL POSITIONS** have been established to promote basic science and clinical interactions. These positions include:

(1) Cardiovascular sciences. Tenure-track and Research Assistant Professor positions using developmental, molecular, or physiological approaches to cardiovascular problems.

(2) Women's health and health promotion. Tenure-track position in cooperation with the South Carolina Cancer Center and USC's Women's Studies Program for an individual to teach and conduct research in area of cancer biology.

(3) Cancer biology. Research Assistant Professor position for an individual using developmental approach to cancer biology.

(4) Neuroscience/cardiovascular physiology. Tenure-track position with the department of physiology and pharmacology.

Tenure-track position candidates are expected to have established research funding. Postdoctoral positions are available in cardiovascular sciences, neurophysiology, and cancer biology. Send curriculum vitae, and names and addresses of three references to: **Search Committee, Developmental Biology and Anatomy, University of South Carolina School of Medicine, Columbia, SC 29208.** Visit website: <http://www.med.sc.edu>. *The University of South Carolina is an Affirmative Action/Equal Opportunity Employer.*

### GORDON W. GULLION ENDOWED CHAIR IN FOREST WILDLIFE RESEARCH AND EDUCATION University of Minnesota

Applications and nominations are invited for this exceptional opportunity to develop a research, teaching, and outreach program dealing with relationships between forest management and wildlife, including ruffed grouse. Applicants for this tenure-track or tenured **ASSOCIATE** or **FULL PROFESSORSHIP** must have a Ph.D. degree and strong record of scientific accomplishment and leadership in forest management/wildlife relationships. Research, teaching, and outreach will focus on the development of forest management practices that preserve the quality of the natural environment, protect biodiversity, and allow for a sustainable use of natural resources. Also essential are an interest in and ability to provide leadership in addressing the needs of hunters, forest landowners, environmental groups, natural resource managers, and the forest industry.

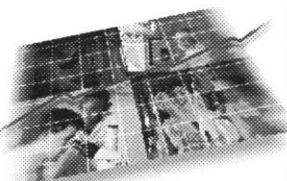
Applicant screening will begin April 1, 1999. Send a statement of research, teaching, and outreach interests, a curriculum vitae, academic transcripts, and the names, addresses, and telephone numbers of five references to: **Gullion Search Committee, Department of Fisheries and Wildlife, University of Minnesota, 1980 Folwell Avenue, St. Paul, MN 55108-6124.** Telephone: 612-624-4222; FAX: 612-625-5299; e-mail: [rz@fw.umn.edu](mailto:rz@fw.umn.edu). *The University of Minnesota is an Equal Opportunity Educator and Employer.*

### ASSISTANT PROFESSOR OF PHARMACOLOGY MICHIGAN STATE UNIVERSITY

Applications are invited for an academic year, tenure-track position at the Assistant Professor level. The successful candidate, who should have a Ph.D. degree (preferably in pharmacology) and several years of postdoctoral experience, will be expected to (1) direct a vigorous, extramurally funded research program employing molecular/biochemical techniques; a broad spectrum of research areas will be considered; (2) participate in medical and graduate education in the areas of basic pharmacological principles and/or chemotherapy of microbial, viral, and neoplastic diseases. Applicants should submit a curriculum vitae, a statement of research and teaching interests, and names and addresses of three references to: **Dr. Kenneth E. Moore, Chairman, Department of Pharmacology and Toxicology, Michigan State University, East Lansing, MI 48824-1317.** See our website: [www.phmtox.msu.edu](http://www.phmtox.msu.edu). Review of applications will begin May 15, 1999, and continue until the position is filled.

*Michigan State University is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.*

# Growth through Discovery



Parke-Davis Pharmaceutical Research, a division of Warner-Lambert, has maintained an outstanding track record of innovation through scientific research to discover drugs for unmet medical needs. Focused on the future, we continue our global success in an environment that recognizes and rewards the individual and team contributions of our diverse colleagues.

At Parke-Davis, we not only make significant contributions to scientific research, but to vital organizations striving to make the workplace a truly equal opportunity environment. We also offer specialized programs that help our colleagues balance their careers and family lives. They include options like flextime, job-sharing, telecommuting, and access to child-care and elder-care networks.

## POSTDOCTORAL FELLOW JOB CODE: CJM-995931

Metabotropic Glutamate Receptors (mGluRs)

You will study the structure, function, and interaction of Homer proteins with Metabotropic Glutamate Receptors (mGluRs). This will include establishing cell lines for model systems (stable and transient expression), the use of blot techniques, and immunocytochemical techniques for localization studies.

A background in molecular biology, cell biology, or pharmacology is preferred. Neuroscience experience is desired, but not required.

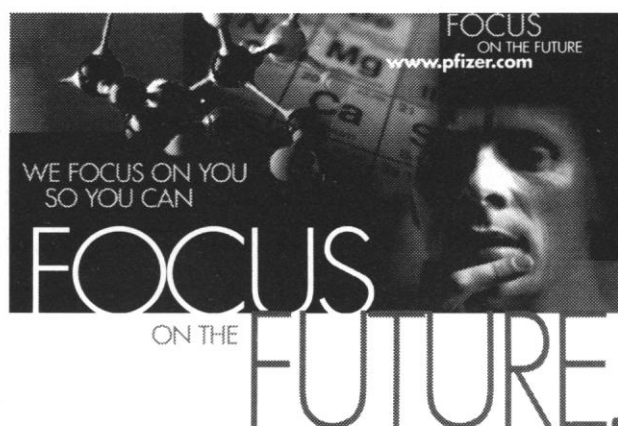
We offer competitive salaries, exceptional benefits packages, and a wonderful work environment. For consideration, please forward your resume with Job Code, to: Parke-Davis, Resume Processing Center, P.O. Box 92242, Los Angeles, CA 90009-2242. Fax: 310-337-3367. E-mail: [parkedavis@isearch.com](mailto:parkedavis@isearch.com)

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## Ph.D. RESEARCH SCIENTISTS

### MECHANISTIC ENZYMOLOGY

Our Protein Chemistry Group has a position available in the area of Mechanistic Enzymology which will be involved in characterizing proteins going into ultra-high throughput screens, from a functional point of view, and will interface with structure-based design groups (computational chemistry, NMR and X-ray), doing high resolution SAR, using initial leads from these screens. Ph.D. in a relevant field, at least 2 years of postdoctoral experience and record of creative and productive research accomplishment required. Strong experience with kinetics tools (steady-state, transient and quenched flow) and a solid protein biochemical background essential. Job Code: 3089

## BS/MS SCIENTISTS

### PROTEIN CHEMISTRY

One Scientist will be a support person for the Ph.D. Mechanistic Enzymologist position described above, and one will be a support person for a Ph.D. Protein Chemist specializing in protein purification. Both positions will be involved in characterizing proteins going into ultra-high throughput screens from a functional point of view. BS/MS in a relevant field with at least 2 years of experience in protein characterization and enzyme kinetics required. Job Code: 3090

## Ph.D. RESEARCH SCIENTIST

### FERMENTATION

We are seeking a Ph.D. cell biologist to improve protein expression in mammalian and insect hosts, with focus on assessing and removing bottleneck(s) in protein expression, secretion and post-translational modification. This individual will work within the Fermentation Technology group providing proteins as targets for medicinal discovery research. Ph.D. in a relevant field, at least 2 years of postdoctoral experience and record of creative and productive research accomplishment required. Job Code: 3091

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## POSITIONS OPEN

### RESEARCH ASSOCIATE CENTER FOR MAGNETIC RESONANCE RESEARCH CARDIAC BIOGENETICS

The Center for Magnetic Resonance Research, Department of Radiology, University of Minnesota Medical School is seeking a Physician with experience in surgical procedures of the heart in animal models for an academic professional position (100-percent time, annual renewable) at the Research Associate level.

Duties include measurement of the blood flow in the heart muscle using ultra-fast Magnetic Resonance Imaging (MRI) and special contrast media; MRI evaluation of adenovirus gene transfer effect in ischemic region of the heart, including quantitative and qualitative evaluation of progressive ischemia of the heart in a coronary artery occlusion model; MRI evaluation of the collateral circulation development initiated by gene therapy; conduct laser treatment study in ischemic disease of the heart. Evaluate myocardial perfusion and function with moderate coronary stenosis in dogs and pigs.

Candidates must have an M.D. degree, with at least three years of postdoctoral research experience, with two years of experience with surgical procedures of the heart. Also required is experience with various computer software including newly developed dedicated cardiac MR software for analysis of various MR heart images.

Salary is negotiable and will be commensurate with experience. Start date is July 1, 1999. Applicants for this position must submit curriculum vitae and three letters of recommendation to:

Norbert Wilke, M.D.  
Assistant Professor  
Center for Magnetic Resonance Research  
385 East River Road  
University of Minnesota  
Minneapolis, MN 55455

Deadline for receipt of applications is April 30, 1999.

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

### ROSENBERG ENDOWED CHAIR IN NEUROSCIENCE MICHIGAN STATE UNIVERSITY

The interdisciplinary Neuroscience Program and the Department of Pharmacology and Toxicology at Michigan State University invite applications for the Rosenberg Endowed Chair in Neuroscience. We seek an established Investigator with a Ph.D. and/or M.D. degree who will direct a vigorous, well-funded research program on the neural basis of substance abuse, and who will complement existing strengths in pharmacology and behavioral neuroscience. We are especially interested in someone conducting research at the molecular level of analysis in the context of behavioral aspects of substance abuse. The candidate must have an internationally recognized record of accomplishment in research, and a willingness to contribute to graduate and medical school teaching. Appointment will be in the tenure system in the Department of Pharmacology and Toxicology. Joint appointment in another department will be considered if appropriate. Academic year salary and level of appointment will be commensurate with experience. Applicants should submit a curriculum vitae, a statement of research and teaching interests, and names and addresses of four references by May 15, 1999, to: Dr. James J. Galligan, Chair, Rosenberg Endowed Chair Search Committee, Department of Pharmacology and Toxicology, Michigan State University, B440 Life Sciences Building, East Lansing, MI 48824-1317. E-mail: galligan1@pilot.msu.edu; websites: <http://www.ns.msu.edu/neurosci/> and <http://www.phmtox.msu.edu>.

*Michigan State University is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.*

### RESEARCH ASSOCIATES/INSTRUCTORS.

Positions immediately available to study immunology, cellular and molecular biology of fertilization; to examine structure-function relationship of molecules; and investigate their utility in contraceptive vaccine development. Ph.D. with relevant experience required. Contact: Rajesh Naz, Ph.D., Professor and Director, Division of Research, Medical College of Ohio, 3055 Arlington Avenue, Toledo, OH 43614. Telephone: 419-383-3502.

## POSITIONS OPEN

The College of Natural Resources (CNR) is seeking to fill three positions for **ACADEMIC COORDINATORS** for CNR Centers.

**Center for Sustainable Resource Development.** The Center focuses research and extension efforts on issues at the nexus of agriculture, natural resources, and the environment in California. The Center Coordinator has overall responsibility for developing and implementing non-degree, certificate programs in international development and the environment, in addition to those described below. 100-percent position.

**Center for Hunger and Obesity.** The Center focuses on current issues in hunger, obesity, and the interaction between them. The Center Coordinator will take a leading role in stimulating the development of new knowledge by coordinating research, education, and outreach in the subject areas associated with hunger and obesity. 50-percent position.

**Center for Biological Control.** The Center focuses on issues related to the biology and ecology of pests and natural enemies of managed and natural ecosystems. The Center Coordinator will procure funding and facilitate project development, coordinate Center activities, and aid communication of campus and statewide biological control programs. 100-percent-time position.

Center Coordinators are expected to identify, develop, and implement initiatives related to current and long-term concerns of the Center. The incumbent will have extensive experience and interest in the subject area of the Center and be required to oversee programs involving teaching, research, and academically based public service to carry out the mission and objectives of the Center. The candidate will be expected to take a lead role in obtaining funding for initiatives. The Coordinator will provide subject area content for fundraising efforts in coordination with the CNR College Relations Office and be responsible for preparation and management of grant proposals and cooperative agreements. The Center Coordinator reports to the CNR faculty and specialists who are the Center Co-Directors. A level of expertise consistent with the highest degree conferred in the field is expected. Appointments will be annual, renewable for up to three years. Interested individuals should send their curriculum vitae and three letters of recommendation to: **Barbara A. Lane, College of Natural Resources, Dean's Office, 101 Giannini Hall, University of California, Berkeley, CA 94720-3100.** The closing date for this position is April 30, 1999. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT/ASSOCIATE PROFESSOR POSITION

The Department of Pharmacology and Experimental Therapeutics is seeking to fill a tenure-track Assistant or Associate Professor position. The candidate should have a Ph.D. and/or M.D. degree, postdoctoral experience, and a strong commitment to excellence in research and teaching. Evidence of originality and scientific accomplishment, plus an excellent record of publication in high-class peer-review journals, are essential. The School of Medicine is located in suburban Chicago. Salary is competitive, and based on experience and qualifications. Generous start-up funds will be provided. Candidates should send their curriculum vitae, three letters of recommendation, representative reprints, and a synopsis of their current and future research interests to:

Dr. Israel Hanin, Chairman  
Department of Pharmacology  
Loyola University Chicago  
Stritch School of Medicine  
2160 South First Avenue  
Maywood, IL 60153  
Telephone: 708-216-3261  
FAX: 708-216-6596

Website: [www.lumc.edu/pharmacology](http://www.lumc.edu/pharmacology)  
*Affirmative Action/Equal Opportunity Employer.*

**STAFF ASSOCIATE** for study of UVR on eye available July 1, 1999. Applicant must have B.S. or equivalent, must be familiar with slit lamp biomicroscopy, care of animals, eye surgery, and have experience with photobiology. Individual will develop method of grading changes in cornea and lens following UVR exposure and work with Photochemist and Ophthalmologist. Send curriculum vitae and three letters of recommendation to: **John C. Merriam, M.D., Ophthalmology Department, Columbia University, 635 West 165th Street, New York, NY 10032.** *Columbia University takes Affirmative Action to ensure Equal Opportunity.*

## POSITIONS OPEN

### ASSISTANT SCIENTIST THE UNIVERSITY OF FLORIDA Department of Neurological Surgery

The Department of Neurological Surgery, University of Florida, College of Medicine is seeking an Assistant Scientist. Primary responsibilities will include research in the cellular basis of epilepsy. The laboratory examines seizure susceptibility in an animal model of cortical dysgenesis. We utilize whole-cell patch clamp recordings from neocortical slices and anatomical techniques to study alterations in local circuitry in areas of cortical dysplasia and heterotopic grey matter. Salary will be commensurate with experience and academic qualifications. The anticipated starting date is June 1, 1999, or as soon as possible thereafter.

Qualifications: Ph.D. in appropriate area of expertise. Experience in whole-cell patch clamp recording from neurons is required.

Applicants should send a curriculum vitae, cover letter, and three letters of recommendation by April 26, 1999, to:

Steven N. Roper, M.D.  
Department of Neurosurgery  
P.O. Box 100265  
University of Florida  
Gainesville, FL 32610

*Equal Opportunity/Affirmative Action Employer.*

## COLBY COLLEGE

Is seeking a **PLANT MOLECULAR BIOLOGIST** to fill a temporary, one-year position as a **FACULTY FELLOW** in biology to begin September 1999. Candidates should have a Ph.D. in the biological sciences, broad training in plant biology with an emphasis on molecular biology, and a strong commitment to undergraduate education. Teaching assignments will include plant physiology with laboratory, molecular biology with laboratory, and plant biology in our team-taught introductory biology course. Familiarity with liberal arts colleges and teaching experience are desirable.

Please submit a letter of application, statement of teaching interests, curriculum vitae, reprints of no more than three publications, undergraduate and graduate transcripts, and three letters of recommendation to: **Paul G. Greenwood, Chair, Department of Biology, 5732 Mayflower Hill, Colby College, Waterville, ME 04901.** Telephone: 207-872-3322; e-mail: [pggreenw@colby.edu](mailto:pggreenw@colby.edu). Application review will begin April 9, 1999, and continue until the position is filled. For more information about the College, please see the Colby website: <http://www.colby.edu>. *Colby is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minority candidates.*

Trimeris, Inc., located in Durham, is a biopharmaceutical company focusing on the discovery and development of a new class of anti-viral therapeutics. With recent progress in the development of the company's lead anti-HIV compound, we are seeking to fill the following position: **SENIOR VIROLOGIST.** Ph.D. with at least five years of experience in antiviral drug discovery research in the area of diseases caused by human viruses. Will manage/oversee the day-to-day operations of BSL-3 laboratory and three-four scientists. Provide scientific leadership in the HIV area of the company. Manage HIV antiviral testing strategies and provide in-depth evaluation of antiviral leads. Will contribute to various HIV discovery research programs. Qualified candidates should send résumés to: **Trimeris, Inc., 4727 University Drive, Durham, NC 27707, Attention: Human Resources.** Visit us at website: [www.trimeris.com](http://www.trimeris.com). No telephone calls please.

**VISITING BIOLOGY ASSISTANT PROFESSOR.** Nine-month appointment beginning August 27, 1999. Teaching responsibilities include human anatomy and human physiology. Preference given to candidates with prior experience in using human cadavers in teaching anatomy. Candidates with interest and experience in these areas are encouraged to apply in anticipation of a national search for a tenure-track position for 2000-2001. Doctorate and demonstrated undergraduate teaching required. Submit (1) letter of application, (2) résumé, and (3) letters from five professional references to: **Dr. Bonnie Amos, Head, Department of Biology, P.O. Box 10890, Angelo State University, San Angelo, TX 76909.** Deadline is open but may be closed at any time after April 1, 1999.

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You don't have to sacrifice your own life to dramatically change the lives of others. At Immunex, we're creating innovative biopharmaceuticals that are giving new hope to people suffering from cancer, inflammatory and infectious diseases. These advancements are all a product of our environment. Based in Seattle, Washington, our employees enjoy all the benefits of this cutting-edge city. Beautiful scenery from mountains to water plus all the amenities of urban living are easily within your grasp.

Take advantage of the following opportunity:

### **MOLECULAR BIOLOGY TECHNICAL GROUP LEADER**

Immunex Corporation is seeking an experienced molecular biologist to create a technically focused group that will support the efforts of Discovery Research. The technology group, to be located at a brand new facility in downtown Seattle, will be responsible for establishing and maintaining state of the art capabilities in array technology and robotics to be used for novel gene discovery and elucidation of biological function. The group will also provide general molecular biology expertise for Immunex's basic research program, and incorporate the existing DNA sequencing group.

The position requires a technically focused molecular biologist with broad expertise, in traditional molecular biology and modern instrumentation, as well as supervisory experience. The successful candidate will possess superior communication skills and the ability to function in a highly collaborative environment, and will have established a record of innovation.

In addition to the tremendously rewarding environment, you'll enjoy an exceptional compensation and benefits package. Please submit a resume (Immunex utilizes scanning technology) specifying **Job Number #99-0076** to: **Immunex Corporation, 51 University Street, Seattle, WA 98101. Fax: 206-621-1399. Jobline: 206-389-4060. [www.immunex.com](http://www.immunex.com). EOE.**

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# **NEW ENGLAND BIOLABS**

## **Positions Available**

New England Biolabs, a world leader in the production of restriction endonucleases and other related products for the recombinant DNA field, seeks applicants for:

### **RESEARCH ASSISTANT/ASSOCIATE:**

Position available immediately to investigate protein splicing and develop intein-based protein purification systems. Applicants should hold a BS or higher degree in Biochemistry, Molecular Biology, or a related field, and possess broad experience in vector construction, protein over-expression and purification, and protein engineering. Send resume and three references to: **Dr. Ming-Qun Xu or Dr. Tom Evans.**

### **POSTDOCTORAL FELLOW:**

2-year position available immediately to investigate protein splicing and study intein-mediated protein ligation. Applicants should hold a Ph.D. in Biochemistry, Molecular Biology, or related field, and possess broad experience in recombinant DNA technologies, and protein engineering. Send a resume and three references to: **Dr. Ming-Qun Xu or Dr. Tom Evans.**

### **POSTDOCTORAL FELLOW (*C. elegans*):**

Position available immediately for a recent Ph.D. to study immunophilins in *Caenorhabditis elegans* and filarial parasites. The research involves the characterization of common genes and identification of potential targets for chemotherapy. Applicants should have a strong background in molecular biology and *C. elegans* genetics. In addition to competitive salary, New England Biolabs offers a very generous fringe benefits package. Attendance at meetings, publication of research results and open communication with others are encouraged. Send a resume and three references to: **Dr. Clotilde K.S. Carlow.**

New England Biolabs, Inc.

32 Tozer Road

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## CROASDALE FELLOWSHIPS IN BIOLOGICAL SCIENCES DARTMOUTH COLLEGE

The Department of Biological Sciences at Dartmouth College seeks qualified applicants for the **Hannah T. Croasdale Fellowships** to begin in the fall of 1999. The Croasdale Fellowships are two year, non-tenure track positions with competitive salaries and research stipends. Each Croasdale Fellow will teach undergraduate courses during two of the four terms in an academic year (two courses per year total), and undertake a postdoctoral research project in affiliation with an established laboratory in the department. We seek one candidate who will teach courses in cell biology, structural biology or introductory virology, and we seek another candidate who will teach comparative vertebrate zoology and a second course in organismal, ecological or evolutionary biology.

Each successful applicant must have a Ph.D. or equivalent before 1 September 1999. Each applicant should identify the laboratory with which he or she would like to affiliate. Collaborative projects that involve more than one laboratory in the Biological Sciences Department will also be considered. Descriptions of faculty research interests can be found at <http://www.dartmouth.edu/artsci/biology/index.html>. Applicants should send statements of research interests, teaching interests including a description of a potential course, curriculum vitae, representative reprints, and have three letters of recommendation sent to either the Croasdale **Cell Biology** Search or the Croasdale **Vertebrate Zoology** Search, Department of Biological Sciences, Dartmouth College, Hanover, New Hampshire 03755. Consideration of applications will begin on 5 April 1999. Dartmouth College is an Equal Opportunity/Affirmative Action Employer.



The Picower Institute  
for Medical Research

## PROTEIN CHEMIST

We are a growing, independent, not-for-profit biomedical research institute located on the campus of the North Shore University Hospital in Manhasset, Long Island. We're seeking a Ph.D. to join a multidisciplinary team, directed by Professor David Callaway, constructing and evaluating a molecular model of amyloid fibril formation in Alzheimer's Disease. This project includes the development of assays for evaluating inhibitors of fibril formation. Expertise in peptide chemistry, HPLC, and gel electrophoresis is required. Work in protein-ligand interaction studies would be helpful.

**Challenging positions also exist in other laboratories for dedicated Ph.D.'s.**

We offer a competitive salary, excellent benefits including a generous 403(b) plan, and a stimulating collaborative research environment in which to thrive. For strictly confidential consideration, please send your *c.v.*, with salary requirement, to: HR Department-PC/S, THE PICOWER INSTITUTE FOR MEDICAL RESEARCH, 350 Community Drive, Manhasset, NY 11030, USA.; Fax #: (516) 869-0629; e-mail: [hr@picower.edu](mailto:hr@picower.edu). We are an equal opportunity/affirmative action employer.

### POSITIONS OPEN

#### SYSTEMATIC ENTOMOLOGIST/CURATOR FOR LEPIDOPTERA

The American Museum of Natural History is seeking an outstanding Researcher in the systematics of the *Lepidoptera*, who will be steward to its 2.5 million-specimen collection of world moths and butterflies. The collection is among the most comprehensive collections of macro-lepidopterans for the Western hemisphere. Qualified applicants must have a Ph.D. by the time of appointment and show achievement and promise in the following areas: morphologically and phylogenetically based revisionary systematics; monographic work; field work and growth of collections; and potential sponsorship of research projects by various granting agencies. Some involvement in public programs and mentoring of graduate students is expected. This is a tenure-track appointment to be filled at the ASSISTANT CURATOR level. Please send a curriculum vitae; statement of research interests and professional goals; names, addresses, and e-mail numbers of four individuals qualified to write letters of recommendations; and a copy of all publications, by April 13, 1999, to: Dr. David Grimaldi, Chairman, Department of Entomology, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024-5192 USA. For inquiries, e-mail: [grimaldi@amnh.org](mailto:grimaldi@amnh.org). The AMNH is an Equal Opportunity Employer.

#### PROJECT SCIENTIST MAMMALIAN GENOTYPING SERVICE

The Marshfield Medical Research Foundation seeks applications for a Doctorate-level Project Scientist within the NHLBI-funded Mammalian Genotyping Service headed by James Weber. The successful candidate will supervise 20 Technicians and will be responsible for development and incorporation of new polymorphism screening technology. This position is an outstanding stepping stone for those seeking careers in genomics. At least two years of postdoctoral research experience preferred. Send curriculum vitae and three reference letters to: Mary Treichel, Marshfield Clinic, 1000 North Oak Avenue, Marshfield, WI 54449. Telephone: 800-782-8581, ext. 75596; FAX: 715-389-4889; e-mail: [treichel@mflclin.edu](mailto:treichel@mflclin.edu). Marshfield Clinic is an Equal Opportunity Employer/Male/Female/Hispanic/Veteran.

### POSITIONS OPEN

#### RESEARCH ASSOCIATE III

Charles L. Hoppel, M.D. Division of Clinical Pharmacology, Case Western Reserve University is offering three Ph.D. scientist Research Associate positions in the program project "Aging Heart, Basis of Ischemic/Reflow Injury." Positions are available immediately. The project involves the cell and molecular biologic approach to mitochondria as a mechanism of oxidative injury in the aging heart during ischemia and reperfusion. Areas of expertise required for individual-funded projects are (1) mitochondrial-derived oxyradical generation and oxidative lipid damage; (2) use of mass spectrometry in the study of protein oxidative damage; and (3) role of carnitine palmitoyltransferase and control of mitochondrial fatty acid oxidation. The scientist will design, perform, and analyze experiments in concert with program project Principal Investigators. Interested parties should contact: Dr. Charles L. Hoppel, M.D., Associate Chief of Staff for Research, Cleveland VA Medical Center, 10701 East Boulevard, Cleveland, OH 44106. Telephone: 216-231-4660; FAX: 216-229-8509; e-mail: [chl5@po.cwru.edu](mailto:chl5@po.cwru.edu). Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.

**RESEARCH ASSOCIATE** in molecular immunology. Research or training grant support; U.S. citizen/permanent resident required for the latter. Cell/molecular studies of the decay accelerating factor (DAF), the hemolytic disorder, paroxysmal nocturnal hemoglobinuria (PNH), and the glycosylated phospholipid (GPI) anchoring pathway. Projects include (1) structure/function analyses of DAF protein, (2) development of mouse models to study PNH and DAF, and (3) characterization of genes involved in GPI anchor assembly. Ph.D. in biochemistry or molecular biology, proficiency in cloning, gene expression, flow cytometry, protein chemistry, and prior work in preparing transgenic/knockouts preferred. Academic laboratory, part of a large collaborative immunology group. Staff includes other Postdoctoral Fellows and Ph.D. students. Contact: Edward Medof, Institute of Pathology, 2085 Adelbert Road, Cleveland, OH 44106. Telephone: 216-368-5434; FAX: 216-368-0495. Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.

### POSITIONS OPEN

#### STAFF ASSOCIATE

Position available to join the Immunogenetics Division, with interest/experience in cellular and molecular immunology and immunogenetics. Duties and requirements for the position include cytofluorometry analysis of lymphocyte differentiation antigens, flow cytometry crossmatching for solid organ transplantation, and molecular HLA typing. A Bachelor's degree with six years of experience is required. Send curriculum vitae and names of three references to: Dr. Nicole Suciu-Foca, College of Physicians and Surgeons of Columbia University, Department of Pathology, P&S 14-401, 630 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

University of California, San Francisco, at the Veterans Affairs Medical Center, **ENDOCRINOLOGIST** (Board-certified/Board-eligible). **ASSISTANT PROFESSOR** with research program in the molecular basis of systemic endocrine/metabolic disease. Emphasis areas: atherosclerosis, bone disease, diabetes, or thyroid. Skills in molecular biology, cloning, *in vivo* retroviral transfection, knock-out or selective overexpression preferred. Send curriculum vitae, research overview, and references to: Dr. Carl Grunfeld, Veterans Affairs Medical Center, 4150 Clement Street (111F), San Francisco, CA 94121. UCSF is an Affirmative Action/Equal Opportunity Employer. The University undertakes Affirmative Action to assure Equal Employment Opportunity for underutilized minorities and women, for persons with disability, and for Vietnam-era veterans and special disabled veterans.

**RESEARCH ASSOCIATE PROFESSOR/SENIOR POSTDOCTORAL POSITION.** Industry-funded, University position to work on transformation, and genetic engineering of nontraditional crops. Experience in genetic manipulations of plants, transformation, and regeneration is desirable. Excellent opportunity for a highly motivated Geneticist/Molecular Biologist interested in working in a dynamic, multidisciplinary group. Three-year renewable funding at the state-of-the-art Biotech Center of Rutgers University. Please send your curriculum vitae and names of three referees to: Dr. Slavik Dushenkov, c/o Dr. Ilya Raskin Biotech Center, Foran Hall, Cook College, 59 Dudley Road, New Brunswick, NJ 08901-8520.



## COLLABORATIVE RESEARCH POSITION

A position is available immediately for a collaborative research scientist in the Immunopathology Section, Laboratory of Immunology in the National Eye Institute, National Institutes of Health, Bethesda, MD. This position involves collaborative experimentation on the various projects within the laboratory including several ocular infectious and non-infectious inflammatory models and ocular tissues with various human disorders. The chosen individual will have a major role in maintaining research continuity within the laboratory, will have the possibility to carry on an independent research project, attend scientific meetings and training courses to keep abreast of latest scientific developments. The applicant must be a US citizen or permanent resident, have a Ph.D. or M.D. degree, and previous experience in molecular biology, cell immunology, ocular pathology, immunohistochemistry, microsurgery, and knowledge of computers and sophisticated scientific equipment usage. This is a renewable position with an initial 5 year appointment. Salary ranges from \$58,000 to \$89,000 depending upon previous experience and education. Please send curriculum vitae, bibliography, and names of three references to the following address by July 15, 1999:

Chi-Chao Chan, M.D., Laboratory of Immunology, NEI, NIH, Bldg. 10, Rm. 10N103, 10 Center Drive - MSC 1857, Bethesda, MD 20892-1857. Fax: (301) 402-8664.

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## RESEARCH SCIENTIST

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We offer excellent benefits & generous stock programs. For immediate consideration, qualified candidates may send CV with salary requirements to: Progenics, HR Dept, P.O. Box 549, Tarrytown NY 10591. Fax: 914-789-2863. E-mail: [hr@progenics.com](mailto:hr@progenics.com)

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The Buck Center for Research in Aging is a new, non-profit research institute dedicated to the study of the basic mechanisms of the aging process and of age-associated diseases, such as neurodegenerative diseases and cancer. The Buck Center was built in response to the National Institute of Medicine's call for ten new institutes devoted to aging research.

We are recruiting faculty positions at the Assistant, Associate and Full Professor level, depending upon experience. Candidates interested in any aging-related research will be considered, but initial emphasis is being placed on the following research areas:

- structural biology
- bioinformatics
- mitochondrial biochemistry and bioenergetics
- mitochondrial genetics
- mitochondrial physiology
- simple models of aging or degeneration
- aging effects on gene expression and protein modification
- telomerase and replicative senescence
- neural cell death

Candidates should have an outstanding record of scientific accomplishments, experience in obtaining research funding, and strong leadership skills. Salary is competitive and commensurate with qualifications and successful experience.

To apply, send curriculum vitae, a description of research interests and plans, and the names, addresses and telephone numbers of three references to:

Search Committee  
Buck Center  
P.O. Box 638  
Novato, CA 94948-0638

*Applications will be accepted until the positions are filled. For additional information, please visit the Buck Center website.*

The Buck Center for Research in Aging is a state of the art facility for basic, multi-disciplinary research in aging and age-associated diseases.

Designed by world renowned architect I.M. Pei, the campus is located in Marin County, California, approximately 20 miles north of the Golden Gate Bridge.

Our mission is to extend *healthspan*, the healthy productive years of life, through research and education.

[www.buckcenter.org](http://www.buckcenter.org)

## POSITIONS OPEN

### MATHEMATICAL STATISTICIAN NORTHWEST FISHERIES SCIENCE CENTER

The Northwest Fisheries Science Center of the National Marine Fisheries Service (NMFS), NOAA, seeks a Statistical or Mathematical Population Ecologist to serve on a multidisciplinary team of scientists studying fish passage, migration, and survival of Snake and Columbia River salmonids. The position requires the ability to evaluate statistical models; use juvenile fish—passage and adult fish—passage models; use statistical software packages such as S-Plus, MINITAB, SAS, SPSS; and use database software such as Access, Ingres, Oracle, and Paradox. The individual will develop, assess, and use models that characterize single species and multispecies Pacific salmon populations at a variety of scales. The individual will also assist with development of analytical methods for solving problems to ensure accuracy of, and confidence in, results; determine appropriate analyses and analyze research data; organize and write research reports and manuscripts for journals; and establish and maintain contacts with researchers in and outside of the NMFS. The successful candidate must have (A) degree that included 24 semester hours (SH) of mathematics and statistics, of which at least 12 SH were in math and 6 SH were in statistics; or (B) combination of education and experience—a minimum of 24 SH of math and statistics, including at least 12 SH in math and 6 SH in statistics as in A, plus appropriate experience or additional education. Applicants must provide proof of education (copy of college transcripts or list of college courses and credits earned). In addition, applicants must have one year of appropriate experience or Ph.D. in math or statistics. See website: [www.usajobs.opm.gov/a9noaa.htm](http://www.usajobs.opm.gov/a9noaa.htm) for complete application information. Applications should be sent to: **National Oceanic and Atmospheric Administration, Human Resources Division, 7600 Sand Point Way N.E., Attn: W/NMF/990192.BS** and postmarked no later than April 19, 1999. For further information, contact: **Cheryl Morisaki**, e-mail: [cheryl.morisaki@noaa.gov](mailto:cheryl.morisaki@noaa.gov). The Northwest Fisheries Science Center is an Equal Opportunity Employer.

### SCIENCE WRITING INTERN

The American Society of Plant Physiologists (ASPP) seeks a science writing and publishing Intern for a period of nine to 12 months to gain extensive hands-on experience in science writing, journal production, and scholarly publishing. ASPP publishes *Plant Physiology* and *THE PLANT CELL*.

See our website: <http://aspp.org/JOBS/fell.htm> for details. **American Society of Plant Physiologists, 15501 Monona Drive, Rockville, MD 20855-2768**. Deadline: April 30, 1999. Start date: September 1999.

**BIOCHEMIST.** Marlboro College invites applications from broadly trained, dedicated teachers for a one-year, renewable, full-time **VISITING FACULTY** position to teach biochemistry, molecular biology, and related courses. Requires work with other science faculty in support of advanced, independent undergraduate work in a liberal arts curriculum that emphasizes cross-disciplinary study. Send letter addressing teaching philosophy, transcripts, curriculum vitae, and letters of recommendation to: **Dean of Faculty, Marlboro College, Marlboro, VT 05344**. Application review begins April 5, 1999; position starts September 1, 1999. *Equal Opportunity Employer.*

**NMR FACILITY SYSTEM MANAGER.** Immediate opening in the recently upgraded Structural Biology 600 MHz NMR Facility at Northwestern University. Candidates with a Ph.D. degree and a strong background in spectrometer hardware and experience in pulse sequence implementation, NMR data analysis, and structure determination of biological macromolecules preferred. Submit résumé and names and telephone numbers of two referees to: **Dr. Fred Northrup, Department of Chemistry, Northwestern University, Evanston, IL 60208**. E-mail: [fnorthrup@nwu.edu](mailto:fnorthrup@nwu.edu). *Equal Opportunity Employer/Affirmative Action Employer.*

**POSTDOCTORAL POSITIONS** are available at The Kennedy Krieger Institute and Johns Hopkins School of Medicine to investigate the genetics, molecular biology, biochemistry, animal models, and therapy of X-linked adrenoleukodystrophy, neurodegeneration, and peroxisomal diseases. Send résumé and names of three references to: **Dr. Kirby Smith, Room 400A, The Kennedy Krieger Institute, 707 North Broadway, Baltimore, MD 21205**. FAX: 410-502-9839. *Equal Opportunity Employer.*

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS GENETICS AND MOLECULAR BIOLOGY BRANCH

National Human Genome Research Institute  
National Institutes of Health

Postdoctoral Research positions immediately available in the following areas of molecular genetics:

**Dr. Melissa Ashlock.** Human artificial chromosome (HAC) development including production and delivery to cells. Studies in human cells involving optimizing transfection efficiency and HAC stability, and assessing gene expression.

**Dr. S. Chandrasekharappa.** Multiple endocrine neoplasia type 1 (MEN1)—Determination of the function of the MEN1-encoded protein, Menin, involving identification of interacting proteins, characterization of MEN1 orthologues, and utilization of animal models.

Candidates with an M.D. and/or Ph.D. and less than five years of postdoctoral experience should send a curriculum vitae, names of three references, and a one-page statement of research interests to either of the Investigators named above at: **NHGRI/NIH, Building 49, Room 3A 14, 49 Convent Drive, Bethesda, MD 20892-4442**. Further information may be obtained online at website: [http://www.nhgri.nih.gov/Intramural\\_research/People/](http://www.nhgri.nih.gov/Intramural_research/People/). The NIH is an Equal Opportunity Employer and applications by women and minorities are strongly encouraged.

### BIOLOGY INSTRUCTORS DEPARTMENT OF BIOLOGY PENN STATE

The Department of Biology at The Pennsylvania State University, University Park Campus seeks qualified Instructors in the biological sciences. We are hiring individuals with a Ph.D. in various fields of the life sciences who are committed to quality undergraduate education. Responsibilities include course development and delivery of lectures to small and large groups, development of innovative student laboratories, exploration of computer technology in the classroom, and advising of Freshman and Sophomore students. The specific course involvement will be dependent upon the candidate's expertise and interests. Submit a curriculum vitae, a cover letter outlining teaching interests, and have three reference letters sent to: **Instructor Positions, 208 Mueller Laboratory, Department of Biology, Penn State, University Park, PA 16802**. *Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL/ASSOCIATE RESEARCH SCIENTIST POSITIONS COLUMBIA UNIVERSITY

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

### POSTDOCTORAL POSITION

Postdoctoral position available immediately to investigate the molecular mechanism of cell polarity establishment during yeast budding. Strong biochemistry or molecular biology background preferred. Send curriculum vitae and names and telephone numbers of three references to: **Dr. Hay-Oak Park, Department of Molecular Genetics, Ohio State University, 484 West 12th Avenue, Columbus, OH 43210**. FAX: 614-292-4466; e-mail: [park.294@osu.edu](mailto:park.294@osu.edu); website: <http://www.biosci.ohio-state.edu/~molgen/html/park.html>.

### POSTDOCTORAL POSITIONS COLUMBIA UNIVERSITY

Positions available to identify ligands and intracellular molecules that bind to polycystin-1. Ph.D. in biochemistry, cell biology, or related discipline required; expertise in protein purification methods and/or *in vivo* translation desirable. Contact: **Dr. van Adelsberg, Department of Medicine, Columbia University, 630 West 168th Street, New York, NY 10032**. E-mail: [jsv1@columbia.edu](mailto:jsv1@columbia.edu). *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### SCIENTIFIC WRITER AND POSTDOCTORAL RESEARCHER UNIVERSITY OF PENNSYLVANIA

The Center for Animal Transgenesis and Germ Cell Research (website: <http://www.vet.upenn.edu/catgr/>) invites applicants for the positions of Postdoctoral Researchers, and a Scientific Writer involved in preparation of grants and manuscripts. Research focus will include several areas of mammalian development including germline development, genomic imprinting, preimplantation development, spermatogenesis, spermatogonial transplantations, sperm cell biology of livestock species, and gamete preservation.

Applicants for Postdoctoral Researcher should have a Ph.D. degree in molecular, developmental, or reproductive biology. Curriculum vitae and contact details of three references to the address below. Applicants for scientific writer should have a B.A./B.S., preferably a Ph.D. with excellent verbal and written communication skills. Curriculum vitae and summary (200 to 500 words) of current biological topic as example to: **Secretary, Center for Animal Transgenesis and Germ Cell Research, New Bolton Center, School of Veterinary Medicine, University of Pennsylvania, 382 West Street Road, Kennett Square, PA 19348**. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL SCIENTIST SOIL BIOGEOCHEMISTRY/ECOLOGY

Postdoctoral position available July 1999 to participate in collaborative field and laboratory studies of soil carbon cycling and nutrient dynamics and their relationships with the distribution and function of soil biota as part of the McMurdo Dry Valley LTER Program, Antarctica. Experience desired in nutrient cycling studies with expertise in areas such as stable isotopes, soil chemistry, soil ecology, and soil moisture dynamics. To apply send curriculum vitae and names of references to: **Dr. Ross A. Virginia, Environmental Studies Program, 6182 Steele Hall, Dartmouth College, Hanover, NH 03755**. *An Equal Opportunity/Affirmative Action Employer.*

### MOLECULAR EVOLUTION/ BIOINFORMATICS

**POSTDOCTORAL POSITIONS** (two) are available for computer-based research on the causes of evolution. Projects involve simulations of evolutionary processes and analyses of sequence/structure data from genes, proteins, and genomes. Ph.D. in biochemistry, structural biology, or related field. Basic knowledge of molecular biology is required, as well as productive research experience with molecular evolution, bioinformatics, or computer simulations. Application deadline May 15, 1999. Respond to: **Dr. Arlin Stoltzfus, Center for Advanced Research in Biotechnology, 9600 Gudelsky Drive, Rockville, MD 20850**. E-mail: [arlin@carb.nist.gov](mailto:arlin@carb.nist.gov).

CARB is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

**POSTDOCTORAL POSITION** available to use a functional genomics approach to study stress gene responses (see website: <http://rex.nci.nih.gov/RESEARCH/basic/lbc/fornace.htm>). A focus will be the use of cDNA microarrays in collaboration with NHGRI. Molecular biology and/or computational biology experience are preferred. Initial stipend is \$29,000 to \$35,000 per year based on zero to five years of postdoctoral experience. Send curriculum vitae and names of three references to: **Dr. A. J. Fornace, Jr., NCI, Building 37, Room 5C09, National Institutes of Health, Bethesda, MD 20892**. E-mail: [fornace@nih.gov](mailto:fornace@nih.gov). *An Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITIONS** available for studies of nuclear receptors/coactivators/corepressors in cancer biology and embryonic development. Experimental systems include primary tumors, embryonic stem cell cultures, and transgenic mice. Ph.D. graduate training in molecular biology, biochemistry, or mouse embryology is desirable. Send curriculum vitae and names of three references to: **Dr. Li-Na Wei, Department of Pharmacology, University of Minnesota, 435 Delaware Street S.E., Minneapolis, MN 55455**. E-mail: [weixx@maroon.tc.umn.edu](mailto:weixx@maroon.tc.umn.edu); FAX: 612-625-8408. The University of Minnesota is an Equal Opportunity Educator and Employer.

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Real jobs. Right now.

## Endowed Chair in Neurobiology

The Louisiana State University Medical Center in Shreveport (LSUMC-S) is seeking nominations and applications for the Schumpert Medical Center Endowed Chair in Neurobiology. The Chair will be a nationally recognized expert in the field of neurosciences. The primary goal of the Chair is to develop, promote and foster research in a clearly-focused and clinically relevant area of neurobiology. Neurobiology, cardiovascular sciences, and molecular biology are areas of research emphasis at LSUMC-S. Hence, applicants with research interests that bridge neurobiology with cardiovascular sciences and/or molecular biology are particularly desirable.

The successful candidate will hold a PhD and/or MD degree, qualify for a senior level tenured faculty appointment, have a strong record of national research funding, be familiar with new and emerging methodologies and technologies in biomedical research, possess administrative and leadership abilities, and be innovative and visionary. The package for the Schumpert Chair in Neurobiology will include:

- a nationally-competitive salary in the Department of Neurosurgery will be supported by state funds,
- two junior faculty position supported from state funds
- \$1 million seed package for acquisition of research equipment, supplies, and technical support for the Chair and junior faculty recruits
- annual interest on the \$2 million Schumpert Chair endowment
- joint faculty appointment in a basic science Department, with an opportunity to train PhD students,
- excellent space for the research team in the new Biomedical Research Institute (BRI).

We hope to have the position filled by July, 1999. Please send applications and nominations to:

D. Neil Granger, PhD  
Associate Dean for Research  
Office of Research  
LSU Medical Center  
1501 Kings Highway  
Shreveport, Louisiana 71130-3932  
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## Scientist/Sr. Scientist Biophysics/Formulation

The Liposome Company, Inc. is currently seeking a Scientist/Sr. Scientist with a Ph.D. in Biophysics, Biochemistry, or a related area with a minimum of 2+ years postdoctoral experience in the characterization and development of lipid based assemblies for its Molecular Mechanisms Group. The successful candidate will possess a thorough knowledge of the physical behavior/properties of lipids, have experience with HPLC, and should be familiar with NMR, fluorescence, and TEM/cryo-TEM techniques.

We offer a competitive compensation package. To be considered please forward or fax your resume to: **The Liposome Company, Inc., 1 Research Way, Dept. WP, Princeton, NJ 08540; Fax: (609) 951-0286. Equal Opportunity Employer.**

## CONFERENCE

### SOCIOECONOMIC STATUS AND HEALTH IN INDUSTRIAL NATIONS: SOCIAL, PSYCHOLOGICAL AND BIOLOGICAL PATHWAYS

#### *A New York Academy of Sciences Conference*

May 11-12, 1999, Bethesda, Maryland  
Chairs: Nancy E. Adler, Michael Marmot and Bruce S. McEwen

This interdisciplinary meeting will examine the data on socioeconomic status (SES) and health, specifically focusing on the impact of SES on health throughout the lifetime. Biological, psychological and social pathways by which SES may influence health will be explored. Policies which could address the social inequalities associated with growing evidence of the gradient seen in SES and health will also be discussed.

#### Conference Topics

- Social Ordering and Health Outcomes
- Developmental Influence Across the Life Span
- Effects of the Social Environment
- Psychobiological and Psychosocial Pathways and Mechanisms to Disease
- Aspects of Policy Implications for Health and Research

#### Confirmed Speakers

N.B. Anderson; A. Baum; S. Cohen; M.R. Cullen; C. Hertzman; G.A. Kaplan; J.R. Kaplan; I. Kawachi; P.R. Lee; U. Lundberg; K.A. Matthews; M.J. Meaney; K. Newman; T. Pickering; T. Seeman; B. Singer; A.R. Tarlov; S.E. Taylor; E. Van Cauter; R.G. Wilkinson; D.R. Williams; M.A. Winkleby

This conference will include poster sessions.

To receive program and registration details contact: **Science and Technology Meetings  
NEW YORK ACADEMY OF SCIENCES**  
2 East 63rd Street  
New York, NY 10021  
Tel: 212.838.0230, ext. 324  
Fax: 212.838.5640  
Email: [conference@nyas.org](mailto:conference@nyas.org)  
Website: <http://www.nyas.org>



## EUROPEAN OPPORTUNITIES

### Research Associate for a Project on Global Food and Water Trade

EAWAG, the Swiss Federal Institute for Environmental Science and Technology, is an interdisciplinary research institute with a strong focus on water research. EAWAG is based near Zurich, Switzerland, and belongs to a network of universities and research institutes sponsored directly by the Swiss government.

Currently, EAWAG strives to study the danger of food scarcity because of increasing water resource problems, and possible implications for international food trade.

For this project we seek a research associate with a Ph.D. or an excellent diploma in economics, management sciences or a related field. The successful candidate should have experience in research on environmental aspects of international trade. She or he must be capable of gathering data in international networks and of implementing a simple database for modelling purposes. Fluent English is required, German would be an advantage. The position is initially for a year and could be renewed thereafter. Additional information about the position can be obtained from **Bernd.Kasemir@Eawag.CH**.

Please send your application, including full personal and career details, and names of references to Verena Cajochen-Terribilini, EAWAG, Ueberlandstrasse 133, CH-8600 Duebendorf, Switzerland.

EAWAG is an equal opportunity employer and encourages women to apply for its positions.



## POSITIONS OPEN

### POSTDOCTORAL POSITION VASCULAR RECEPTOR SIGNALING

A position is available immediately to investigate the receptors and signaling pathways that mediate the activation of platelets and other vascular cells (see: *Nature* 394: 690, 1998). Approaches include molecular cloning of signaling proteins and *in vivo* analysis using transgenic and gene-targeted mice. Applicants must have a Ph.D. and/or M.D. with a strong foundation in molecular biology.

The University of Pennsylvania provides a stimulating research environment and the laboratory is located in a new research building with extensive core facilities.

Send curriculum vitae and the names of three references to: Mark Kahn, M.D., Department of Molecular Cardiology, University of Pennsylvania, 813A Stellar-Chance/6100, 422 Curie Boulevard, Philadelphia, PA 19104. FAX: 215-573-2094; e-mail: markkahn@mail.med.upenn.edu.

NIH-funded POSTDOCTORAL POSITIONS (requiring U.S. citizenship or permanent residency) are available in the Pulmonary Center at the Boston University School of Medicine. The first position is to study intracellular signaling and cytokine gene regulation as a part of the innate immune response. The second position is to study organ specific Fas ligand expression and action. Candidates should have a recent Ph.D. degree with a strong background in cellular and molecular biology. Send curriculum vitae and addresses of three references to: Dr. Matthew J. Fenton (position 1) or Dr. Alan Fine (position 2), Pulmonary Center, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118-2394. FAX: 617-536-8093.

**POSTDOCTORAL POSITIONS.** Two NIH-funded Postdoctoral positions are available immediately to study (a) the role of cyclins T1, T2a, and T2b and their catalytic subunit, CDK9 (PITALRE), in T cell activation and HIV-1 replication and (b) the role of the retinoblastoma-related protein p130 during the cell cycle, quiescence, and differentiation. Expertise in molecular biology required and in cellular biology/biochemistry, virology, and/or immunology desired. Send curriculum vitae, statement of research interests, and names of three references to: Xavier Grana, Ph.D., Fels Institute for Cancer Research, Temple University School of Medicine, 3307 North Broad Street, Philadelphia, PA 19140. FAX: 215-707-5562; e-mail: xgranaam@nimbus.ocis.temple.edu. Temple University is an Equal Opportunity/Affirmative Action Employer/Minorities/Females/Disabled/Veterans.

**POSTDOCTORAL POSITION** in molecular and cellular immunology. Immediately available to study mucosal cellular immunity (apoptosis induction), pathogenesis of IBD, immunity against HPV and HIV. Cellular immunology background is required and molecular biology experience is also preferred. Interested candidates should send applications to: Dr. Liang Qiao, Department of Microbiology and Immunology, Loyola University Chicago (Medical Center), 2160 South First Avenue, Maywood, IL 60153. E-mail: lqiao@luc.edu; FAX: 1-708-216-1196.

### POSTDOCTORAL POSITION UNIVERSITY OF ROCHESTER CANCER CENTER

NIH-funded position studying mammalian DNA replication and repair. Focus on how cells shift from replication to repair after damage. Expertise in mechanistic biochemistry and molecular biology required. Send curriculum vitae and three reference letters to: Dr. Robert Bambara, Department of Biochemistry/Biophysics, University of Rochester Medical School, Box 712, Rochester, NY 14642.

**POSTDOCTORAL POSITION** in parasite immunology available immediately. A strong background in experimental immunology is expected, preferably with experience in mice and humans. Working knowledge in protein/peptide purification techniques regarded as an asset. Submit résumé and three references to: Dr. Arvind N. Thakur, Department of Microbiology, SUNY, 138 Farber Hall, 3435 Main Street, Buffalo, NY 14214. E-mail: anthakur@acsu.buffalo.edu. The Research Foundation of SUNY at Buffalo is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### MOLECULAR AND CELLULAR IMMUNOLOGY MICROBIOLOGY

**POSTDOCTORAL POSITIONS** available to study the recognition of nonpeptide prenyl pyrophosphate antigens by human  $\gamma\delta$  T cells (*Nature* 375:155; *Immunity* 3:495). Projects include the identification of the novel antigen presenting element, purification of new nonpeptide antigens from bacteria and tumor cells, determination of the molecular basis for recognition by the  $\gamma\delta$ 2V $\delta$ 2 antigen receptor, and determination of the biological effects of  $\gamma\delta$  T cells in an *in vivo* monkey model. Individuals with a strong research background in cellular and molecular immunology, biochemistry, microbiology, molecular biology, and/or organic chemistry should apply. Send, e-mail, or FAX curriculum vitae, names/e-mail addresses of three references, and a description of research accomplishments to: Craig T. Morita, M.D., Ph.D., Department of Internal Medicine, University of Iowa College of Medicine, EMRB 340F, Iowa City, IA 52242. FAX: 319-335-7607; Telephone: 319-335-9981; e-mail: craig-morita@uiowa.edu.

### MEDICAL EDUCATION/ MARKETING PROGRAMS

Looking for a new career opportunity, love science and medicine, but want to do more with the business side of your brain? Leading medical communications company based in New York City with offices in London is looking for bright, talented, and ambitious individuals who can combine science with the business of pharmaceutical marketing.

Duties will include implementation of medical educational programs, including CME and non-CME meetings, monographs, slide kits, etc. In addition, knowledge of publications programs (medical literature) a plus. Frequent domestic and international travel, including weekends. For immediate consideration FAX or mail résumé, which must include salary requirement, to: Harrison and Star/Health Science Communications, 16 West 22 Street, 12 Floor, New York, NY 10010 Attn: Human Resources Department. Telephone: 212-822-6590.

**POSTDOCTORAL POSITION** to study the role of chromatin structure and gene expression in DNA repair in mammalian cells, cell extracts, and yeast (e.g., see: *Prog. in Nucleic Acids Res. and Mol. Biol.* 62:255, 1999; *EMBO J.* 18:1396, 1999; Li and Smerdon, *J. Biol. Chem.*, in press). Training in biochemistry, biophysics, molecular biology, and/or molecular genetics is preferred. Send statement of interests, résumé, and names of three references to: Dr. Michael J. Smerdon, Department of Biochemistry and Biophysics, Washington State University, Pullman, WA 99164-4660. E-mail: smerdon@mail.wsu.edu; FAX: 509-335-9688. WSU is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS** available to work on protein engineering of T cell receptors and antibodies. Experience in molecular immunology and/or biophysical techniques desirable. Please send curriculum vitae and details of three references to: Dr. E. Sally Ward, Center for Immunology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-8576. E-mail: sally@skylab.swmed.edu. Equal Opportunity Institution.

**POSTDOCTORAL POSITION** available immediately to study structure-function relationships, protein-protein interactions, and regulation of endothelial nitric oxide synthase. Background of the applicant is less important than the willingness and aptitude to learn. Send curriculum vitae and the names of three references to: Richard C. Venema, Ph.D., Vascular Biology Center, Medical College of Georgia, Augusta, GA 30912. E-mail: rvenema@mail.mcg.edu.

Full-time three-year **POSTGRADUATE RESEARCH POSITION** available in Department of Surgical and Radiological Sciences, School of Veterinary Medicine, University of California Davis. Prefer D.V.M., M.D., and/or Ph.D. with research experience in cancer gene therapy strategy. Ability in basic and/or applied research in such areas as molecular and cellular biology, brain tumor biology, or neuroimmunology desired. Ability to communicate fluently in English required. Additional information and position description available from: J. Ryan, Telephone: 530-752-9774; e-mail: jaryan@ucdavis.edu. Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE POSITIONS

Applications are invited for Postdoctoral positions in the Department of Physiology and Biophysics at the University of Mississippi Medical Center. Applicants must have a Ph.D. and/or M.D. with research interests that complement existing areas of excellence in cardiovascular, renal, and neuroendocrine physiology, or the pathophysiology of hypertension and vascular disease. Salaries are competitive and there is an opportunity for rapid promotion to the faculty position of Instructor. Qualified applicants will have the opportunity to train in the laboratories listed below:

Thomas H. Adair. Angiogenesis, vascular biology.  
Michael W. Brands. Diabetes, hypertension, and renal disease.

Joey P. Granger. Pregnancy-induced hypertension, endothelial biology.

John E. Hall. Obesity hypertension, diabetes, sympathetic system, target organ injury.

Robert L. Hester. Microcirculation, endothelial function.

Raoul A. Khalil. Vascular smooth muscle, cell signal transduction.

Christoph Klett. Molecular biology of renin-angiotensin system.

Thomas E. Lohmeier. Neuroendocrine control of sodium excretion and arterial pressure.

R. David Manning. Molecular biology of nitric oxide, hypertension.

Jane F. Reckelhoff. Gender differences in hypertension and kidney disease.

Suresh C. Tyagi. Extracellular matrix and cardiovascular remodeling.

David B. Young. Atherosclerosis, potassium homeostasis.

The large group of cardiovascular scientists in the department offers excellent opportunities for collaboration and training in molecular, cellular, and systems physiology, and the pathophysiology of hypertension and vascular disease. For more information, the department website can be accessed at website: <http://phys-main.umsmed.edu>. Interested applicants should send a curriculum vitae, a statement of research and career goals, a graduate transcript, and the names of three references to any of the faculty listed above, or to: Chair, Department of Physiology and Biophysics, University of Mississippi Medical Center, Jackson, MS 39216-4505. The University of Mississippi is an Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.

### ASSISTANT/ASSOCIATE PROFESSOR PHARMACEUTICS ALBANY COLLEGE OF PHARMACY

The Albany College of Pharmacy invites applications for a tenure-track Assistant/Associate Professor position in the Division of Basic and Pharmaceutical Sciences. Applicants must have a Ph.D. in pharmacetics, pharmacokinetics, or a related discipline and postdoctoral training experience. The successful candidate will be expected to develop a productive research program. Prior teaching experience is desirable. Teaching responsibilities will be in our Bachelor of Science and Doctor of Pharmacy programs. The position will be available January 1, 2000.

Interested individuals should submit a curriculum vitae, a description of future research plans, and the names of three references to: Diane Sylvester, Ph.D., Albany College of Pharmacy, 106 New Scotland Avenue, Albany, NY 12208. Review of applications will begin May 1, 1999. Please visit our website for more information about our College (website: [www.acp.edu](http://www.acp.edu)). Albany College of Pharmacy is an Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL POSITION DIVISION OF HEMATOLOGY-ONCOLOGY EMORY UNIVERSITY SCHOOL OF MEDICINE

Position available immediately to study allogeneic cellular immunotherapy in mouse model of leukemia and bone marrow transplantation. We have observed that allogeneic donor lymphocytes treated with low-dose irradiation retain graft-facilitating and anti-leukemic activity without producing graft versus host disease in a MHC mismatched transplant model in mice. The successful applicant will characterize the effector population responsible for these activities and study the effect of radiation on effector cell function as well as characterizing the role of donor antigen preventing cells in these phenomena. Contact: Edmund K. Waller, M.D., Ph.D., FACP, Telephone: 404-727-1806; FAX: 404-727-3520; e-mail: ewaller@emory.edu.

## Post-Doctoral Fellowship Openings

Vascular Cell & Molecular Biology,  
Immunology, Inflammation,  
Hematopoiesis / Stem Cell Technology

### Blood Research Institute



Global in Reach, Local in Care

The Blood Center of Southeastern Wisconsin, an internationally recognized leader in transfusion medicine-related research, vascular cell and molecular biology, molecular hematology, and transplantation immunology, is seeking outstanding candidates to fill NIH Training Grant-funded Postdoctoral Fellowship positions at its Blood Research Institute.

Located adjacent to the Medical College of Wisconsin on the campus of the Milwaukee Regional Medical Complex, the Blood Research Institute provides state-of-the-art facilities, and offers an excellent environment for scientific interaction and interdisciplinary collaboration. Opportunities are available with Blood Center faculty in the following areas:

**John W. Adamson, MD** — Stem cell self-renewal process; cytokine-induced platelet production

**Richard H. Aster, MD** — Pathogenesis of drug-induced blood dyscrasias

**David D. Eckels, PhD** — Immunobiology of hepatitis C virus

**Jack Gorski, PhD** — Structure/function analysis of HLA-DR; Development of T cell repertoires, alloimmunity

**Jerome Gottschall, MD** — Endothelial cell injury in TTP/HUS

**Cheryl Hillery, MD** — Mechanisms of red blood cell adhesion in sickle cell disease

**Robert R. Montgomery, MD** — Molecular biology of von Willebrand factor

**Peter J. Newman, PhD** — Cell adhesion and signaling in vascular cells

**Debra Newton-Nash, PhD** — Regulation of T-cell signal transduction by inhibitory receptors

**Gian P. Visentin, MD** — Chemokine regulation of endothelial cell proliferation and angiogenesis

**Hartmut Weiler, PhD** — Developmental function of blood clotting; vascular biology; transgenic mouse models for thrombosis

Applicants should send curriculum vitae, a brief description of recent research, and the names and telephone numbers of three references to:

**Human Resources  
Blood Research Institute  
The Blood Center of Southeastern  
Wisconsin, Inc.  
638 N. 18th Street  
Milwaukee, WI 53233-2121**

Due to NIH Training Grant regulations, only American citizens or Permanent Residents are eligible to apply. The Blood Center of Southeastern Wisconsin is an equal opportunity/affirmative action employer. Minorities and women are encouraged to apply.

<http://www.bloodctrwise.org>

## EUROPEAN OPPORTUNITIES

### EPIDAUROS



BIOTECHNOLOGIE AKTIENGESELLSCHAFT

EPIDAUROS AG is a new German biotechnology company located 25 miles south of Munich on Lake Starnberg. Our mission is to develop genetic tests to tailor drug prescription to individual patients' needs. The correlation between variable drug response and individual genotype will be studied in prospective and retrospective analyses.

#### The following opportunities are presently available at EPIDAUROS:

##### Group Leader Molecular Pharmacogenetics

**Your task:** The analysis of genetic polymorphisms and their influence on effects, metabolism and side effects of drugs. **Your qualifications:** Several years of experimental experience as postdoc in molecular biology and cell- or tumor biology.

##### Group Leader Bioinformatics

**Your task:** The analysis of sequence data and genetic polymorphisms. **Your qualifications:** Several years of experience as postdoc in informatics. Experience in the application of informatics to questions relevant to molecular biology, generation and management of databases.

##### Network Specialist

**Your task:** The establishment and maintenance of our computer networks. **Your qualifications:** Network management (Unix, Windows NT, MacOS) and experience with data transfer protocols in heterogenous networks. Programming experience is of advantage.

##### Database Administrator

**Your task:** Generation and management of relational databases. **Your qualifications:** a minimum of one year experience in configuration and maintenance of a major relational database management system. Experience with SQL, Unix and Client/Server configurations. Programming experience is of advantage

##### Research Associates

**Your task:** DNA-sequencing, genotyping, and molecular biology. **Your qualifications:** Excellent experience in molecular biology or cell biology techniques. Experience with the application of pipetting robots is of advantage.

We are looking for highly motivated people who are capable to work independently in leading positions, and as team players in interactive research projects. We offer competitive salaries and the opportunity to share the success of our company with stock options.

Interested candidates should send a cover letter and a resume to:

**EPIDAUROS BIOTECHNOLOGIE AG**

Am Neuland 1

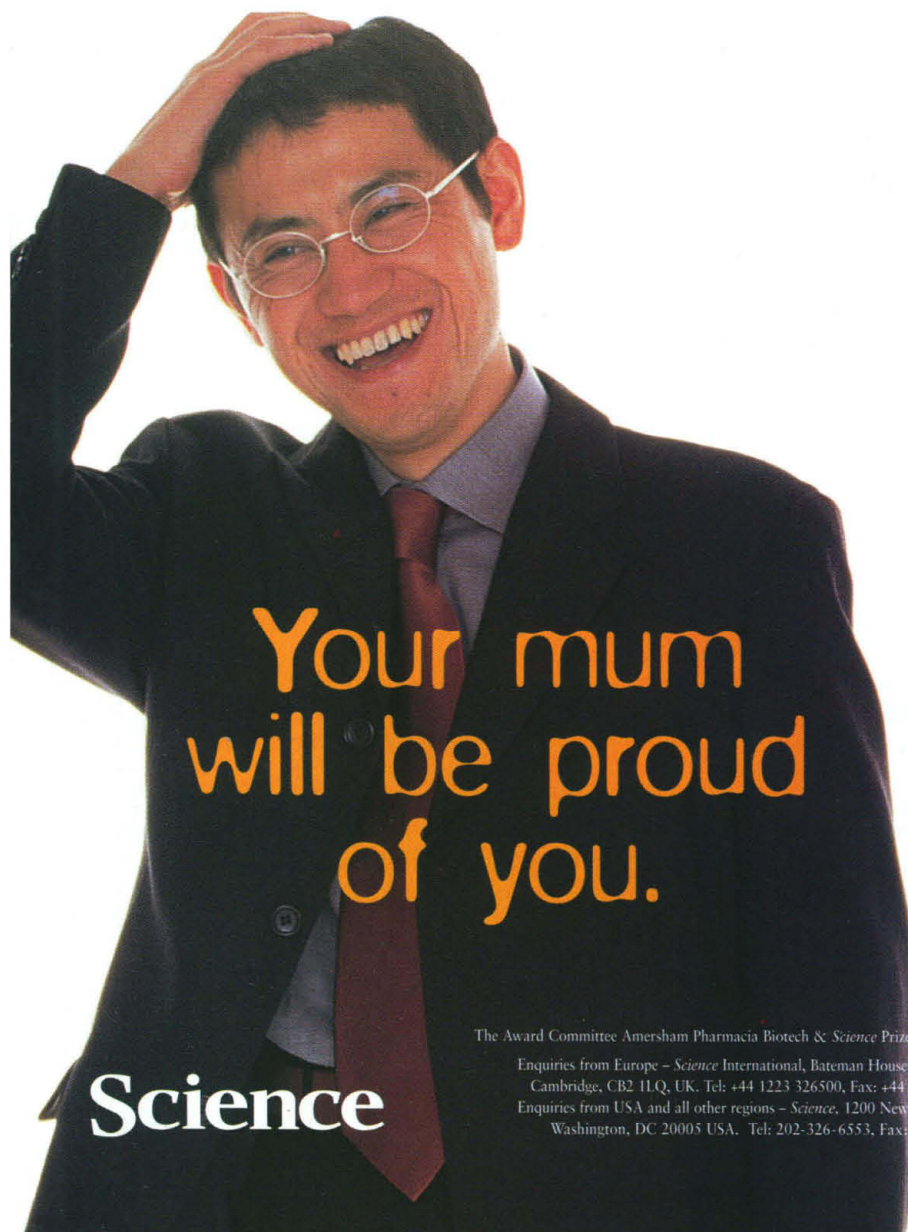
D-82347 Bernried, GERMANY

FAX: +49 (8158) 9985-48

E-mail: [info@epidauros.com](mailto:info@epidauros.com)

Internet: [www.epidauros.com](http://www.epidauros.com)

Forget the  
international  
acclaim,  
the career  
advancement,  
the money.



Science

AMERSHAM PHARMACIA  
BIOTECH & SCIENCE  
**Prize**  
FOR YOUNG  
SCIENTISTS

Will it be your parents'  
turn this year?

The annual Amersham Pharmacia Biotech & Science Prize is one of the most prestigious international awards of its kind for young scientists. It can help achieve quite a lot for those who enter, putting bright, new scientific talent in the spotlight; bringing international acclaim to them and their universities; advancing their careers and earning winners and runners-up a handy cash prize (the first prize amount has been increased to \$25,000, with up to seven additional prizes of \$5,000).

#### Call for entries

You must be a recent Ph.D. graduate (awarded between 1 January and 31 December 1998) working in molecular biology. Submissions must be in the form of a 1000-word essay, in English, French, German, Spanish, Japanese or Mandarin Chinese, on your thesis, highlighting the significance of its contribution and overall implications in the field. The winning essay will be published in *Science*.

Closing date for entries is 15 June 1999. Prizes will be presented at an award ceremony in December 1999.

Full details and the required entry form can be requested from the administrator at the address below, or via these Web sites:

<http://www.aaas.org/science/prize.htm>

<http://www.apbiotech.com>

Hiroyuki Noji  
(Ph.D. awarded by Tokyo Institute of Technology), winner  
of the 1998 Amersham Pharmacia Biotech & Science Prize  
for Young Scientists.

The Award Committee Amersham Pharmacia Biotech & Science Prize for Young Scientists

Enquiries from Europe - Science International, Bateman House, 82-88 Hills Road,  
Cambridge, CB2 1LQ, UK. Tel: +44 1223 326500, Fax: +44 1223 326501.

Enquiries from USA and all other regions - Science, 1200 New York Avenue, NW,  
Washington, DC 20005 USA. Tel: 202-326-6553, Fax: 202-789-8172.



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## S. T. Li Prize for the Achievement in Science and Technology Call for Nominations

The S. T. Li Prize is established to recognize the achievement of distinguished scholars in science and technology. The work being honored should have been published in peer reviewed journals during the last three years.

The S. T. Li Prize in 2000 has a value of \$30,000. The prize will be awarded to one nominee. The award shall be used for a current or a future research project. As a condition to accept the prize, the awardee shall agree that if any publications result from the research, the support of S. T. Li Foundation shall be appropriately acknowledged.

Nominations, including a curriculum vitae and a brief description of the significance of the nominee's work, and two letters of recommendation from qualified individuals in the nominee's field should be sent to the **S. T. Li Foundation, P.O. Box 8286, Rapid City, SD 57709-8286**. Nomination must be submitted before June 15, 1999. The nominee cannot submit nomination on his or her own behalf.

The S. T. Li Foundation selected Dr. Larry E. Overman, Distinguished Professor at University of California, Irvine as the recipient of the S. T. Li Prize of 1999 for his significant contribution to synthetic chemistry.

## EUROPEAN OPPORTUNITIES



## UNIVERSITY OF CAMBRIDGE

### *Rank Research Professorship in Opto-Electronics*

Applications are invited for an unestablished Research Professorship in Opto-Electronics in the Department of Zoology, from 1 October 1999 or as soon as possible thereafter. Applicants should be working on the functioning of eyes, or the processing of visual signals in the brain. They should have an established record of excellence in research, and be willing to integrate with the Department's strong research base in neurobiology, developmental biology, behaviour, and behavioural ecology. The appointment, which is funded by the Rank Prize Funds, will be for an initial period of five years.

Informal enquiries should be made to Professor Malcolm Burrows (e-mail [mb135@hermes.cam.ac.uk](mailto:mb135@hermes.cam.ac.uk), tel. 01223 336601, URL: <http://www.zoo.cam.ac.uk/>). Candidates for the Professorship should each send a copy of their applications, marked 'confidential', which should include a statement of research aims, a curriculum vitae, a list of publications, and the names of two referees, to the Secretary General of the Faculties, from whom further information regarding the Professorship is available, at the General Board Division, University Offices, The Old Schools, Cambridge CB2 1TT, so as to reach him not later than Friday, 30 April 1999.

The University follows an equal opportunities policy.



## UNITED ARAB EMIRATES UNIVERSITY FACULTY OF MEDICINE AND HEALTH SCIENCES (FMHS)

### **Exciting opportunities at the FMHS for full-time academic staff as Assistant/Associate/Full Professor or "Teacher" category**

Established in 1986 and recently moved into a completely equipped new building, the FMHS provides an integrated problem-oriented undergraduate medical curriculum with English as the medium of instruction. Appointees will join a dynamic team of medical educators, researchers, and support staff who maintain academic balance in medical education, basic science and clinical research, clinical care, and community and university service.

**Basic requirements** for appointment in Departments of **ANATOMY, BIOCHEMISTRY, MEDICAL EDUCATION, MICROBIOLOGY, PATHOLOGY, PHARMACOLOGY, and PHYSIOLOGY:** PhD or MD obtained by research, experience teaching medical students, and research productivity. Basic requirements for appointment in **COMMUNITY MEDICINE, FAMILY MEDICINE, INTERNAL MEDICINE, OBSTETRICS & GYNECOLOGY, PEDIATRICS, PSYCHIATRY, RADIOLOGY and SURGERY:** MD or MBBS followed by well-supervised advanced training, higher professional recognition, experience teaching medical students and advanced trainees, research productivity, and understanding of GME accreditation and membership/fellowship/certification in North America, Australia, Europe, and by the Arab Board. Appointees in Basic Science & Clinical Departments will be familiar with USMLE and MCCEE.

The UAE is an open and tolerant society and clearly one of the most attractive places to live and work in the Middle East.

**Faculty** receive tax-free salary, generous leave, and support for accommodation/furnishings, annual air fares, educational assistance for up to three children, and international conferences.

**Further information** may be obtained from the web site at <http://www.uaeu.ac.ae> or Chair of the respective department by tel +971-3-672000 or fax +971-3-672001.

**Applications** should include full CV and publication list, names/addresses/fax of five referees, and letter indicating position sought, depth of interest, experience, and suitability for the post sent to:

The Dean (c/o Mr C. P. Nair)  
Faculty of Medicine and Health Sciences  
United Arab Emirates University  
P O Box 17666, Al Ain, United Arab Emirates

**Applications closed 1 September 1999; previous applicants need not apply.**

## POSITIONS OPEN

### POSTDOCTORAL POSITION MOLECULAR BIOLOGY AND EVOLUTION OF COLOR VISION at Syracuse University

Positions are available immediately to study molecular biology and evolution of vertebrate color vision, including characterization of opsin genes and structure/function relationships of visual pigments using site-directed mutagenesis and cultured cells. Experience with recombinant DNA techniques (genomic library construction, cloning, and sequencing) is useful and a strong interest in molecular evolution is desirable. A general direction of our research program can be seen in Yokoyama, S., *Annu. Rev. Syst.* 27:543-567, 1996; Yokoyama, S., *Annu. Rev. Genet.* 31:311-332, 1997; Kawamura and Yokoyama, *Vision Res.* 38:37-44, 1998. Send curriculum vitae, a statement of research interests, and addresses, telephone numbers, and e-mail addresses of three references to: Dr. Shozo Yokoyama, Department of Biology, Syracuse University, 130 College Place, Syracuse, NY 13244. Telephone: 315-443-9166; FAX: 315-443-2012; e-mail: syokoyam@mailbox.syr.edu. Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL POSITION DIFFERENTIATION INDUCERS AND HISTONE DEACETYLASE INHIBITORS Mount Sinai School of Medicine

Mount Sinai School of Medicine is a leader in medical education and research. A Postdoctoral position is available immediately to characterize the structure and mechanism of recently identified highly active differentiation inducers. You will also be involved in a related study of the development of targeted histone deacetylase inhibitors as anticancer agents. Experience in molecular and structural pharmacology essential; training in transcriptional regulation preferred.

For consideration, please send curriculum vitae to: Dr. Samuel Waxman, Department of Medicine, Box 1178, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. FAX: 212-996-5787. We are an Equal Opportunity Employer fostering diversity in the workplace.

### POSTDOCTORAL POSITIONS TO STUDY MUTAGENESIS OREGON HEALTH SCIENCES UNIVERSITY

Two Postdoctoral positions will be available summer/fall 1999 to study mutation formation affecting an endogenous autosomal mouse locus. Both *in vivo* and *in vitro* approaches will be used. One project involves oxidative mutagenesis and the effects of aging. The second project involves ionizing radiation mutagenesis and the protective effect of the *Atm* locus. Recent Ph.D. graduates with excellent technical and written skills are preferred. Send curriculum vitae, brief statement of research interests, and names of three references to: Dr. Mitchell Turker, Center for Research on Occupational and Environmental Toxicology, L606, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201. E-mail: turkerm@ohsu.edu.

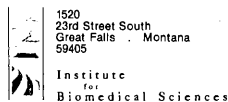
Two POSTDOCTORAL POSITIONS in developmental angiogenesis. Research programs will examine the role of Angiopoietins, VEGFR-3, and Synaptotagmin 2 signaling in this process. Experience in molecular biology, signal transduction, and mouse development. Submit curriculum vitae and three references to: Dr. Dan Dumont, Research Scientist, Division of Cancer Biology Research, Sunnybrook & Women's College Health Sciences Centre, 2075 Bayview Avenue, Room 2-232, Research Building, Toronto, Ontario M4N 3M5 Canada. FAX: 416-480-5737. Equal Opportunity Employer.

### POSTDOCTORAL FELLOW POSITION

A Postdoctoral position for an individual with a background in cellular and molecular biology for research in neuronal aging. Emphasis is on oxidative pathways. Experience in telomere biology preferable. A letter stating experience, relevant publications, curriculum vitae, and three references to: Dr. Miguel Pappolla, University of South Alabama, Department of Pathology, 2451 Fillington Street, Mobile, AL 36617-2293. FAX: 334-471-7838; e-mail: mpappoll@usmail.usouthal.edu.

## POSITIONS OPEN

McLaughlin  
Research



### POSTDOCTORAL POSITIONS MOLECULAR GENETICS OF MOLECULAR MOTORS AND NEURODEGENERATIVE DISEASES

Postdoctoral positions for individuals with fewer than three years of postdoctoral training are available to study Alzheimer's disease (George Carlson) or molecular motors in organelle transport and inner-ear hair cell adaptation (John Mercer). Send curriculum vitae, including names and addresses of individuals we may contact for references, to:

George A. Carlson, Ph.D.

or

John A. Mercer, Ph.D.

McLaughlin Research Institute

1520 23rd Street South

Great Falls, MT 59405

E-mail: gac@po.mri.montana.edu

or

E-mail: umbjm@montana.edu

For additional information about the Institute contact George Carlson, Bill Crain, John Mercer, or John Birmingham at McLaughlin Research Institute, or any of the following members of our Scientific Advisory Committee: Irv Weissman, David Baltimore, David Cameron, Neal Copeland, Jeff Frelinger, Leroy Hood, or Nancy Jenkins.

An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS.** Position One: develop an inducible system for target gene expression. Current project includes delivering the inducible system via adenoviral vector system into mice for gene therapy. Experience in molecular biology is desirable. References: Wang et al, *Nature Biotech.* 15:2391, 1997; Burcin et al, *PNAS* 96:355, 1999. Send curriculum vitae and three reference letters to: Dr. Bert W. O'Malley, Professor and Chairman (address below). Position Two: study the role of nuclear orphan receptors in neural development and angiogenesis. Experience in molecular or developmental biology is desirable. References: Qiu et al, *Gene and Development* 11:1925, 1997; Tsai and Tsai, *Rev.* 18: 229, 1997. Send curriculum vitae and three reference letters to: Dr. Sophia or Ming-Jer Tsai, Baylor College of Medicine, Cell Biology, One Baylor Plaza, Houston, TX 77030.

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

### POSTDOCTORAL POSITION

An additional recently funded Postdoctoral position is available to posttranscriptional regulation. The project focuses on an RNA surveillance pathway that either degrades or corrects aberrant mRNAs (see reviews: *Cell* 96: 307, 1999; *Immunity* 8:135, 1998). Opportunity to train in the fields of gene regulation and immunology (TCR regulation). Seek a motivated person with background in molecular biology. Send curriculum vitae to: Miles F. Wilkinson, Department of Immunology, University of Texas M. D. Anderson Cancer Center, Box 180, Houston, TX 77030. E-mail: mwilkins@notes.mdacc.tmc.edu.

### POSTDOCTORAL POSITION

Fellowship for NIH-funded training in molecular immunoparasitology. Studies will focus on the interactions between mucosal and systemic *Trypanosoma cruzi* immunity relevant for vaccine development. Experience in molecular biology and immunology preferred. Contact: Daniel Hoft, M.D., Ph.D., Infectious Diseases, Saint Louis University, 3635 Vista, St. Louis, MO 63110-0250. E-mail: hoftdf@slu.edu.

**POSTDOCTORAL FELLOWSHIPS.** Positions are available immediately and for next year at the Sol Sherry Thrombosis Research Center, Temple University School of Medicine, Philadelphia, Pennsylvania for research in platelets, cell and molecular biology, signal transduction, receptors, and enzymes. U.S. citizenship or permanent residency required. Generous stipend and excellent benefits. E-mail: colman@astro.temple.edu; FAX: 215-707-2783 with curriculum vitae and three references. Temple University is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### POSTDOCTORAL FELLOWSHIP

The University of Massachusetts Lowell is accepting applications from recent Doctoral-degree candidates for a Postdoctoral Fellowship to study the effects of various environmental components (pollutants and micronutrients) on cellular and molecular events in both normal and abnormal cells and various mouse models. This position is supported by the Centers for Chronic Disease Control, Cellular Neurobiology and Neurodegeneration Research and the Massachusetts Bioprocess Development Center in conjunction with the Office of Collaborative Research. Applications are encouraged from individuals with strong interest in the area of molecular and cellular biology of immune function or signal transduction. Experience with transgenic mice and knockout mice is desirable. The Fellowship term is one year with the expectation that, with assistance from faculty, RO1 support will follow. Applicants must qualify under the NIH guidelines, which include U.S. citizenship or permanent residency. Interested individuals should send a curriculum vitae and a list of three references to: Dr. Robert Nicolosi, University of Massachusetts Lowell, Office of Collaborative Research, Wannalancit Building, 600 Suffolk Street, Lowell, MA 01854.

### POSTDOCTORAL POSITIONS AT NIH

A Postdoctoral position is available immediately to work in the Laboratory of Molecular and Developmental Biology in the National Eye Institute, National Institutes of Health. The research involves studies on developmentally regulated, tissue-specific expression of genes in the lens and/or cornea and on genetic engineering of the cornea. Methodologies include cloning, expression, and molecular analyses of cDNAs and genes, and production and utilization of transgenic mice, gene knockout mice, and transfected cells. Candidates must be U.S. citizens or permanent residents and have a Ph.D. or M.D. degree. Salary begins at \$30,000 and increases depending on experience. Please send curriculum vitae and the names of three references to: Dr. Joram Piatigorsky, Laboratory of Molecular and Developmental Biology, Building 6/Room 201, Bethesda, MD 20892-2730. E-mail: joramp@intra.nei.nih.gov. NIH is an Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** available to study (1) Nuclear mRNA processing and export in yeast. The main goal of the project is to elucidate the role of post-translational protein modification in this process. (2) Molecular mechanism and regulation of photoreceptor membrane fusion. Applicants with a strong background in molecular and cellular biology are strongly encouraged to apply.

Interested candidates should send their curriculum vitae and the names of three references to: (1) Dr. Michael F. Henry or (2) Dr. Kathleen Boesze-Battaglia, Department of Molecular Biology, University of Medicine and Dentistry of New Jersey, Two Medical Center Drive, Stratford, NJ 08084. E-mail: henrymf@umdnj.edu or battagli@umdnj.edu. UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.

### POSTDOCTORAL POSITION VASCULAR BIOLOGY JOHNS HOPKINS UNIVERSITY

Postdoctoral position is available immediately to study inflammation in the cardiovascular system, and nitric oxide biology. Applicants should have a strong background in molecular biology as shown by previous first author publications. For references see: *J. Biol. Chem.* 274:993-9, 1999; *Immunity* 10:21-8, 1999. Send curriculum vitae, first author reprints, and three letters of recommendation to: Charles Lowenstein, 950 Ross Building, Johns Hopkins Hospital, 720 Rutland Avenue, Baltimore, MD 21205. E-mail: clowenst@jhmi.edu.

**POSTDOCTORAL POSITION** available immediately for NIH-supported study of mucosal and passive immunity as related to enhancement of the immunogenicity of recombinant enteric viral vaccines in a calf or pig challenge model. Experience in immunology is required with training in molecular virology desirable. Send curriculum vitae and three letters of recommendation to: Dr. Linda Saif, Food Animal Health Research Program, Ohio Agricultural Research and Development Center, The Ohio State University, Wooster, OH 44691.

## POSITIONS OPEN

The Department of Radiology at the University of New Mexico has two **POSTDOCTORAL FELLOWSHIP/RESEARCH SCIENTIST** positions available immediately. These are two-year positions with possible third-year extension. These positions will examine the relationship of functional magnetic resonance and magnetoencephalography (MEG) and their application to neuroscience and neurological diseases. Research will be conducted at the VA Medical Center. Qualifications are a Ph.D. in neuroscience, psychology, biomedical engineering, physics, or related fields; experience in functional neuroimaging; and good computer skills. Previous experience with MEG and/or fMRI is desirable. Please submit a curriculum vitae, unofficial copies of undergraduate/graduate transcripts, and the names and addresses of three references to: **Administrator, Department of Radiology, University of New Mexico, Albuquerque, NM 87131-5336**. For best consideration, application materials must be received by June 30, 1999. Questions about these positions should be directed to: **Cheryl Aine, Ph.D., Telephone: 505-265-1711, ext. 4854**. Applicants must be authorized to work in the United States. The University of New Mexico is an Affirmative Action/Equal Opportunity Employer.

## INSTRUCTOR/POSTDOCTORAL POSITIONS VANDERBILT MEDICAL CENTER Electrophysiology and Molecular Biology

Instructor/Postdoctoral positions available immediately. Successful candidates will utilize electrophysiological and molecular techniques to study molecular and cellular regulation of volume-sensitive anion channels and DEG/ENaC channels in *C. elegans*, oocytes, and cell lines. Candidates should have a Ph.D. and be highly motivated to develop a career as an independent scientist. Salary and rank negotiable. Send curriculum vitae, statement of career goals, and names of three references to: **Dr. Kevin Strange, Director, Anesthesiology Research Division, Department of Anesthesiology, Vanderbilt University, 504 Oxford House, 1313 21st Avenue South, Nashville, TN 37232**.

## POSTDOCTORAL POSITIONS ALLERGIC INFLAMMATION Beth Israel Deaconess Medical Center Harvard Medical School

Postdoctoral positions available on an NIH training grant to study diverse aspects of allergic inflammation. Faculty include **Dr. S. Balk, Dr. A. Dvorak, Dr. R. Geha, Dr. C. Gerard, Dr. N. Gerard, Dr. J.-P. Kinet, Dr. A. Nicholson-Weller, and Dr. P. F. Weller**. Please send curriculum vitae and names of three references to: **Peter F. Weller, M.D., Allergy and Inflammation Division, Beth Israel Deaconess Medical Center, DA-617, 330 Brookline Avenue, Boston, MA 02215. FAX: 617-277-6061. BIDMC is an Equal Opportunity Employer.**

## POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS

Fellowships available to residents of North America with Ph.D., M.D., or comparable degree and less than one year of postdoctoral laboratory experience by application deadline for beginning training in basic biomedical research. The three-year award consists of a stipend of \$33,000 for the first year, \$35,000 for the second year, and \$37,000 for the third year; \$2,000 per annum research allowance; travel to Fellowship location; annual meeting. Application deadline August 15, 1999; Fellowships activate following July 1999. For application forms, write: **The Helen Hay Whitney Foundation, 450 East 63rd Street, New York, NY 10021. FAX: 212-688-6794**.

## POSTDOCTORAL POSITION FUNCTIONAL GENOMICS

Immediate opening exists for full-time Postdoctoral Fellow to study the mechanism of RNA-mediated genetic interference (RNAi) and develop RNAi technologies for use in functional genomics. *Drosophila* is used as a model system for our mechanistic and technology studies, and RNAi methodologies are being developed for mammalian model systems. We seek candidates with experience in genetics or molecular biology. Send curriculum vitae, names of three references, and statement of interest to: **Rich W. Carthew, Ph.D., Department of Biological Sciences, University of Pittsburgh, Pittsburgh, PA 15260. E-mail: carthew@pop.pitt.edu**.

## POSITIONS OPEN

Two **POSTDOCTORAL POSITIONS** are available immediately to clone and characterize the cofactors involved in the antiproliferative properties of transcription factor USF. The projects are relevant to the following research areas: transcriptional regulation, tumor suppressors, cell cycle regulation, chromosomal stability, c-Myc oncoprotein, loss-of-function mutations. We are looking for enthusiastic and ambitious young scientists with prior expertise in molecular biology, mammalian cell biology, or yeast genetics. Applicants with less than four years of prior postdoctoral training are preferred. Please send a curriculum vitae with the names and contact information of two references to:

**Dr. Michele Sawadogo**  
Department of Molecular Genetics (Box 11)  
The University of Texas  
M. D. Anderson Cancer Center  
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FAX: 713-794-4295  
E-mail: msawadog@mdanderson.org

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**POSTDOCTORAL RESEARCH ASSOCIATE.** Available May 1999 to do research on the ecology of rocky shores. Applicants must have a Ph.D. in marine ecology. Expertise in field experimental approaches, statistics, computer programming, experimental design and execution, and image analysis is expected. Position is 1.0 FTE; salary range \$25,000 to \$30,000. Send letter of application, curriculum vitae, and names, addresses, telephone numbers, and e-mail addresses of two references to: **Dr. Bruce Menge, Department of Zoology, Oregon State University, Corvallis, OR 97331. Telephone: 541-737-3705. Apply by April 5, 1999. OSU is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.**

**POSTDOCTORAL RESEARCH POSITION** available July 1, 1999. NIH-sponsored neuroscience training grant. Applicant must be U.S. citizen or permanent resident. Recent graduate needed for studies of mouse models of Alzheimer's disease. Prefer background in neuropathology or anatomy, but all qualified candidates will be considered. Send letter, curriculum vitae, and the names and contact information of three references to: **Dr. Jonathan Smith, The Rockefeller University, 1230 York Avenue, New York, NY 10021. E-mail: smithj@rockvax.rockefeller.edu. Affirmative Action/Equal Opportunity Employer.**

## GLOBAL OPPORTUNITIES

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**Dr. Tai-huang Huang**  
Structural Biology Division  
Institute of Biomedical Sciences  
Academia Sinica  
Nankang, Taipei 11529  
Taiwan, ROC  
E-mail: bmthh@ccvax.sinica.edu.tw  
FAX: 886-2-2788-7641

## ANNOUNCEMENT

The Rosenstiel School of Marine and Atmospheric Science of the University of Miami is pleased to announce that **Richard T. Barber** is the recipient of the 23rd annual Rosenstiel Award. The award recognizes outstanding achievement and distinction in oceanographic science. Barber is the Harvey Smith Professor of Biological Oceanography at Duke University, President of the Ocean Sciences Section of the American Geophysical Union (AGU), and a Fellow of the AGU and American Association for the Advancement of Science.

## POSITIONS OPEN

The National Eye Institute, National Institutes of Health, has a **POSTDOCTORAL POSITION** available to study the regulation of cyclin-dependent kinases in differentiation and apoptosis of ocular tissues. Current studies focus on Cdk5. Stimulating interactive environment. Travel opportunities. Starting salary ranges from \$27,500 to \$38,000 per year depending upon experience. Applicants must have strong background in molecular/cellular biology, must have Ph.D. or M.D. with less than five years of postdoctoral experience, and must be U.S. citizens or permanent residents. Please send curriculum vitae, bibliography, and names of three references to: **Dr. Peggy S. Zelenka, Laboratory of Molecular and Developmental Biology, Building 6, Room 214, MSC-2730, MD 20892-2730. Telephone: 301-496-7490; FAX: 301-435-7682; e-mail: zelenka@helix.nih.gov. NIH is an Equal Opportunity Employer.**

Columbia University. A **POSTDOCTORAL POSITION** is available at Columbia University. We are studying neuronal signaling involved in early stages of cortical development. Methods include patch clamp recording, neuroanatomical methods, calcium imaging in brain slices, and molecular biological approaches. Experience in patch clamp recording is preferred but not required. Additional training in molecular biology or calcium imaging is desirable. Send curriculum vitae and names of three references to: **Arnold R. Driegstein, M.D., Ph.D., Department of Neurology, Columbia University College of Physicians and Surgeons, 630 West 168th Street, Box 31, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.**

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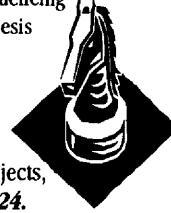
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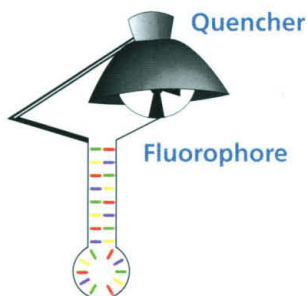
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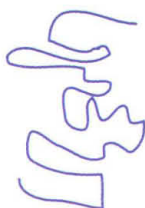
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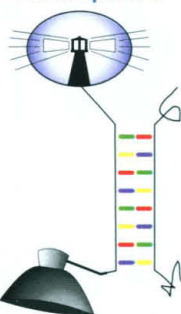
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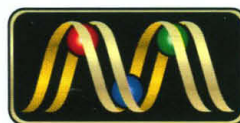
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