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INSTRUMENTATION, APPARATUS, AND LABORATORY MATERIALS

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four microtiter plates or two culture flasks at one time. It features a nonskid surface and is 225-mm square.

### CYTOKINE MRNA QUANTITATION KIT

The nonradioactive CytoXpress Detection Kit features a sensitive and specific enzyme-linked immunosorbent assay (ELISA) format that allows for accurate quantitative results of a polymerase chain reaction product within 4 hours. The ELISA format eliminates the need for Northern (RNA) blotting and enables the user to detect as few as 10 amplified copies per reaction. The kits target a variety of human, mouse, or rat cytokine mRNAs.

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### DIGITAL BIOLOGICAL AMPLIFIER

The Digital Bioamp System is a programmable biological amplifier for extracellular physiology, intracellular physiology, auditory brainstem response, electroencephalogram, and electromyogram. The system

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can be used manually through a front panel interface or programmed through a personal computer. A unique feature of the system is that biological signals are digitized immediately at the headstage and passed to the controller module. All filtering is digital, and the filter banks can be made to perform any filtering operation by sending filter coefficients via an RS232 interface. The controller module and headstage are available in either two- or four-channel versions. The controller module mounts into an external bus system called XBUS, which allows modules to be combined, providing up to 512 channels in a single integrated system.

### TRANSPORTABLE SPECTROFLUOROMETER

The SkinSkan is a spectrofluorometer designed for measurements on skin, but its fiber probe and transportable design make it suitable for any fluorescence measurement. Applications include photodynamic therapy, sunscreen evaluation, studies of skin aging and hair damage, tumor characterization, and pollution identification at the spill site. It can run off normal house current or be connected to an inverter in the back of a van. Because it excites and accumulates data through a fiber probe, there is no limit to the size of the sample. The unit is self-calibrating and connects to personal computers that run on Windows-compatible software.

#### Instruments S.A.

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### HEPA FILTER OPTION FOR INCUBATORS

The Ultima line of laboratory CO<sub>2</sub> incubators now includes a high-efficiency particulate air (HEPA) filter option. This option is designed to dramatically improve air quality and to protect cultures from contamination caused by routine door openings, which expose cell cultures to airborne particulates from the lab. The filter cleans the chamber atmosphere without high velocity airflow detrimental to the still air cell culture technique. The filter is designed for easy installation on many earlier model Revco incubators.

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#### JBL Scientific

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### SPIN CHROMATOGRAPHY KITS FOR ANTIBODY RECOVERY

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### PHOSPHOR IMAGING SYSTEM

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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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*Long-Term Consequences of Considering Race in College and University Admissions*

## THE SHAPE OF THE RIVER

Long-Term Consequences of Considering Race in College and University Admissions

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## POSITIONS OPEN



### FACULTY POSITIONS UNIVERSITY OF KENTUCKY Department of Anatomy and Neurobiology

The Department of Anatomy and Neurobiology has an extraordinary opportunity to expand its research strength in biomedical sciences through the new Research Challenge Trust Fund program. Under the auspices of this program, the Department will hire three tenure-track or tenured, distinguished scientists at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level.

Creative, successful individuals who want to contribute to vibrant, growing research programs within a comprehensive Medical Center and participate in the teaching and service missions of the University are invited to apply. Successful candidates at a tenured level are expected to possess established, externally funded research programs, and successful candidates at the tenure-track level are expected to develop and maintain innovative, externally funded research programs. Competitive start-up funds, state-funded salary commensurate with experience, and modern research facilities will be provided. Special consideration will be given to applicants who complement existing departmental strengths and who will contribute to clinical research in the College of Medicine, the Sanders-Brown Center on Aging, and the Markey Cancer Center.

Applicants must have a Ph.D. and/or M.D. or equivalent degree and should have at least two years of postdoctoral experience. Interested individuals should send a curriculum vitae, a summary of past experience, future research plans, and arrange for three letters of recommendation to be sent to the appropriate Search Committee Chair noted below. Applicants are invited to view the College of Medicine's Web page where information about these positions is also listed.

Full or Associate Professor in neuroscience with a research emphasis on central nervous system processes underlying neuronal cell death, regeneration, and recovery of function following injury to the spinal cord and/or brain. The individual should possess the leadership and research skills to organize a Spinal Cord and Brain Injury Research Center. Search Committee Chair: **Dr. Jim Geddes.**

Full, Associate, or Assistant Professor in neuroscience with a research emphasis on neuroplasticity, regeneration, and recovery of central nervous system function. Search Committee Chair: **Dr. Don Gash.**

Assistant Professor in neuroscience with a research emphasis on the molecular signal transduction pathways involved in development, aging, neuronal injury, and/or neuroprotection in the central nervous systems. Search Committee Chair: **Dr. Mark Mattson.**

Applications and nominations should be sent to the appropriate search committee chair: **Faculty Search Committee, Department of Anatomy and Neurobiology, MN224 Chandler Medical Center, University of Kentucky, Lexington, KY 40536-0298. Telephone: 606-257-5036; FAX: 606-323-5946.**

The search committees are currently reviewing applications and will continue until the positions are filled. *Women and minority candidates are encouraged to apply. The University of Kentucky is an Affirmative Action/Equal Opportunity Employer.*

**ASSISTANT OR ASSOCIATE PROFESSOR** of biochemistry and molecular biology at Finch University of Health Sciences/Chicago Medical School. Two tenure-track positions available for a Biochemist or Molecular Biologist with interest in protein structure/function using structural or biophysical approaches to study enzymes, receptors, growth factors, nucleic acid binding proteins, catalytic antibodies, etc. The willingness and ability to teach in medical genetics would be an advantage for one position. The excellent research environment and modern facilities of the school are located in a pleasant North Shore suburb 30 miles north of the Loop. Visit website: [www.finchcms.edu/biochem/Biochem.html](http://www.finchcms.edu/biochem/Biochem.html). Send letter, curriculum vitae, names of three references, description of research, and statement of current funding to: **Dr. K. E. Neet, Chairman, Department of Biological Chemistry, Finch University of Health Sciences/Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064. An Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

### FACULTY POSITIONS TULANE CANCER CENTER

The Tulane Cancer Center is seeking applications for three tenure-track appointments at the **ASSISTANT or ASSOCIATE PROFESSOR** levels and an Endowed Chair at the **FULL PROFESSOR** level. Minimum requirements include an earned doctorate in a relevant field of study and at least two years of postdoctoral research experience. Teaching duties will be in either graduate or medical student teaching within one of the departments listed below. Modern laboratory space will be provided in the newly constructed floor dedicated to basic cancer research, with 14 strong cancer research groups from different departments providing a strong and interactive research environment. Candidates with movable extramural research support can expect resources to expand their research program. Preferred areas of research for the three departments, consistent with cancer center programmatic development, are:

Biochemistry: biochemistry of cancer, cell signaling, and hormonal control of cell proliferation, genetics, or molecular therapeutics of cancer.

Pathology: molecular therapeutics or genetics of cancer.

Environmental health sciences: cancer biology or chemoprevention, preferably with an emphasis in genetic diversity or molecular biology of receptors in response to the environment.

### ENDOWED CHAIR IN BREAST CANCER RESEARCH

Nominations and applications are solicited for candidates to occupy the newly endowed Safra Chair in Breast Cancer Research. Candidates with research interests in all areas of breast cancer research will be considered, as well as candidates who study other forms of hormonally controlled cancer. Candidates are expected to have a Ph.D. in an appropriate field or an M.D., and to have an innovative research program with a strong history of extramural support. The Safra Chair will be expected to identify and take a leadership role in a Cancer Center program related to their field of expertise. The successful candidate will also hold an appointment at the tenured Full Professor level in an appropriate basic science department and will be expected to contribute to medical or graduate teaching within his/her specialty.

Submit applications, including curriculum vitae, summary of research interests, funding history, and names of three references, to: **Dr. Prescott Deininger, Tulane Cancer Center, SL-66, Tulane University Medical Center, 1430 Tulane Avenue, New Orleans, LA 70112. Applications are preferred before December 15, 1998. Tulane University is an Affirmative Action/Equal Opportunity Employer.**

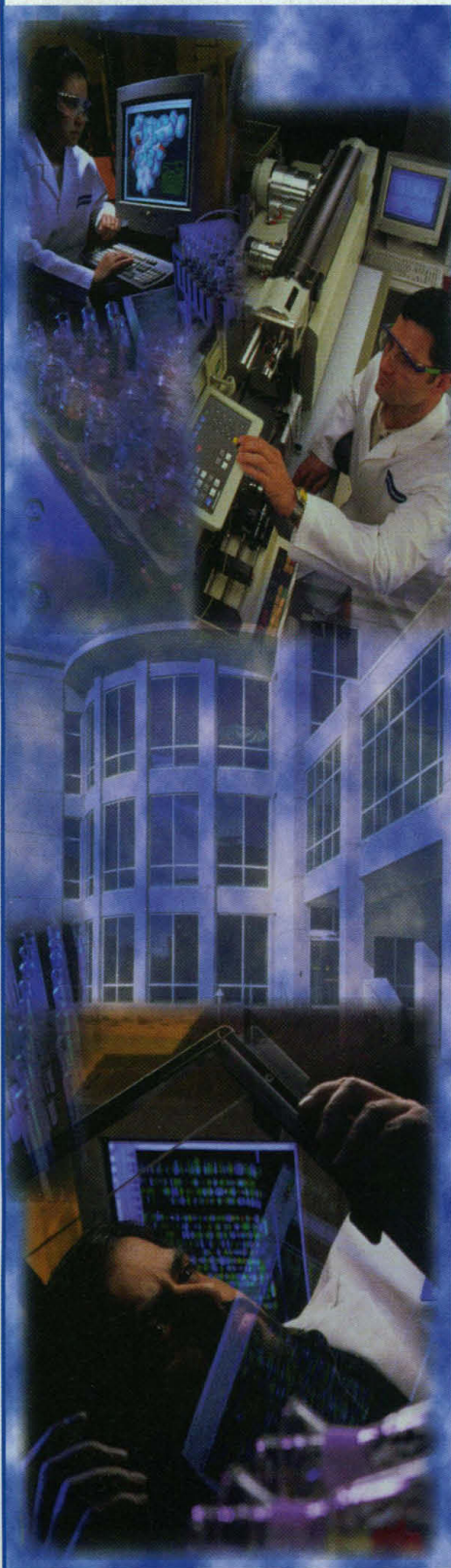
### THREE FACULTY POSITIONS

The Biology Department at Stephen F. Austin State University invites applications for three tenure-track positions at the **ASSISTANT PROFESSOR** level. (1) Ecological Plant Physiologist. Must be qualified to teach plant physiology, general botany, and introductory biology and advanced courses in such areas as stress physiology and ecophysiology. (2) Vertebrate Developmental Biologist. Must be qualified to teach comparative vertebrate anatomy, developmental biology, morphogenetic mechanisms, and introductory biology. (3) Conservation Biologist. Must be qualified to teach comparative vertebrate anatomy, biological experimental design and analysis, and introductory biology and advanced courses in a specialty of interest. All candidates must have Ph.D. in biology and a strong background in appropriate emphasis. Postdoctoral experience preferred. Must participate in graduate program and establish a modest research program. Salary \$35,000 for nine months. Review of applicants will begin immediately, with a deadline of October 23, 1998, or until positions are filled. Starting date: August 1999. Applicants should request application form at address below or access forms on our website: [www.math-science.sfasu.edu/biologypositions.html](http://www.math-science.sfasu.edu/biologypositions.html). Send completed application, curriculum vitae, transcripts, three letters of recommendation, and a statement of teaching and research philosophies and career objectives to: **Dr. Don Hay, Chair, Department of Biology, Box 13003, Stephen F. Austin State University, Nacogdoches, TX 75962-3003. Telephone: 409-468-3601; e-mail: dhay@sfasu.edu. Equal Opportunity/Affirmative Action Employer. Applications subject to disclosure under Texas Open Records Act.**



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### Requirements:

Ph.D. in Pathology, Biology or closely related field.  
3-5 years experience in a research environment, (preferably in industry).  
Hands-on expertise in molecular pathology & imaging is essential.

### Key technical competencies in the following areas:

research experience in immunohistochemistry (IHC), apoptosis labeling, DNA & mRNA in situ hybridization, multi-mode light microscopy (Brightfield, Fluorescence, etc.), confocal microscopy, scanning and transmission electron microscopy (SEM, TEM), image capture and computer assisted image analysis, quantitative in situ hybridization and receptor binding autoradiography.

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**Postdoctoral and Predoctoral Positions  
VECTOR BIOLOGY AND PARASITOLOGY PROGRAM  
DEPARTMENT OF BIOLOGICAL SCIENCES  
UNIVERSITY OF NOTRE DAME**

The University of Notre Dame has several openings for Postdoctoral Scientists and Predoctoral Students with interests in the biology of human parasites and arthropod vectors of human pathogens. A major emphasis in the program is research related to malaria, with opportunities ranging from studies of molecular and cell biology of the parasite to vector and parasite population genetics. Opportunities are available through the Program's National Institutes of Health training grant, "Experimental Parasitology and Vector Biology," as well as through research grants held by individual faculty. *Some positions are restricted to U.S. citizens or permanent residents.* A list of the faculty and their research interests are shown below.

**John A. Adams, Ph.D.** – Molecular and Cell Biology of Parasites, Erythrocyte Invasion by malaria parasites

**Nora J. Besansky, Ph.D.** – Molecular and Evolutionary Genetics of Mosquitoes, Population Genetics of African Malaria Vectors

**Frank H. Collins, Ph.D.** – Genetics of Mosquito Vectors of Malaria Parasites, Malaria Parasite/*Anopheles* Mosquito Interaction

**Greg Dwyer, Ph.D.** – Insect-Host Pathogen Relationships, Disease Ecology & Modeling

**Elizabeth D. Eldon, Ph.D.** – Molecular Genetics of Insect Development and Immunity

**Malcolm J. Fraser, Ph.D.** – Molecular Biology and Genetics of Viruses, Transposon-mediated Germ-line Transformation of Insects

**Paul R. Grimstad, Ph.D.** – Vector-Borne Disease Ecology and Epidemiology, Mosquito-transmitted Viruses

**Ronald A. Hellenthal, Ph.D.** – Systematics of Ectoparasites, Computing and Informatics in Biology

**Howard J. Saz, Ph.D.** – Regulation of Energy Metabolism and Signal Transduction in Helminth Parasites

**Jeff S. Shorey, Ph.D.** – Immunology and Cell Biology of *Mycobacterium*-Host Cell Interactions

**David W. Severson, Ph.D.** – Quantitative and Population Genetics of Mosquito, Mechanisms of Mosquito Refractoriness to Parasites

**Thomas G. Streit, Ph.D.** – Epidemiology and Control of Mosquito-transmitted Filarial and Viral Pathogens

For Postdoctoral positions, send CV and names of three references and identify faculty member(s) of interest. For Predoctoral positions, send statement of interest, transcripts, and names of three references. All material should be mailed to: **Kathleen Merz, Department of Biological Sciences, Galvin Life Sciences Rm. 107, P.O. Box 369, University of Notre Dame, Notre Dame, IN 46556-0369.** Faculty e-mail addresses and a more detailed description of the Program can be found through the Department of Biological Sciences Home Page: <http://www.bio.nd.edu/biology>. *The University of Notre Dame is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.*

**Faculty of Forestry  
University of Toronto  
Silviculture**

Applications are invited for the position of Assistant Professor of Silviculture in the Faculty of Forestry, University of Toronto, commencing on July 1<sup>st</sup>, 1999, or as soon as possible thereafter. This is a tenure-stream position.

The Faculty of Forestry is a graduate faculty that offers three programs. The M.Sc.F. and Ph.D. are research degrees that involve graduate courses and thesis research closely linked to research interests of individual faculty members. The M.F.C. (Master of Forest Conservation) is a 16-month degree program, with strong emphasis on field and practical work, summer internships, and intensive residential field camps in Canada and abroad. The successful candidate will be expected to participate actively in teaching and supervision in each program. Members of the Faculty also normally participate in some undergraduate teaching in other divisions of the University.

The University of Toronto is a research-intensive university. A Ph.D. and excellent research potential are essential qualifications. The successful candidate must show personal commitment to research, and support of a vigorous group of graduate research students.

The position is intended for applicants with primary interests and experience in silviculture. Applications will be welcomed from candidates with a range of subsidiary interests, including, but not limited to: forest ecology, growth and yield, wildlife habitat conservation, and a sustainable forest management and certification.

*In accordance with its Employment Policy, the University of Toronto encourages applications from all qualified women and men, members of minorities, aboriginal peoples, and persons with disability. Inquiries about the Faculty of Forestry and these positions are welcomed. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents, but all applicants will be considered.* Letters of application accompanied by a detailed curriculum vitae and the names and addresses of three referees should be submitted before November 16<sup>th</sup>, 1998, to:

**Professor Rorke Bryan, Dean, Faculty of Forestry  
University of Toronto  
33 Willcocks Street,  
Toronto, Ontario  
M5S 3B3  
E-mail: [r.bryan@utoronto.ca](mailto:r.bryan@utoronto.ca)**

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## Senior Scientist, Microbial Physiology and Fermentation

Successful candidate must have a Ph.D. in microbiology, biochemistry or related fields plus 4 years of experience in fermentation process. He/she should possess a strong background and in-depth knowledge of microbial physiology and secondary metabolism, as well as experience in engineering industrial organisms. This position also requires familiarity and expertise with shake flask fermentation and quantitative analysis and optimization of fermentation process. Department Code: **MST-1**

## Senior Scientists, Molecular Biologists

Candidates should have a Ph.D. in microbiology, molecular biology or related field, with successful accomplishments in genetic engineering industrial strains. Persons should also have 4 years of research experience in microbial genetics, fermentation, regulation of secondary metabolites, in actinomycetes, enzymology and recombinant DNA expression protocols. The persons will investigate ways to improve the productivity of bacterial strains through genetic engineering. Department Code: **MST-2**

## Associate Scientists, Industrial Microbiologists

Successful candidates should have either a B.S. or M.S. in microbiology, molecular biology or biochemistry and 3 years of research experience. Background with bench-top shake flask fermentation support work, maintaining and handling bacterial cultures, biochemical analysis, enzymology or techniques of molecular cloning, PCR, as well as operations of laboratory analytical instruments is desirable. One position will require experience with techniques for the genetic modification of actinomycetes. Department Code: **MST-3**

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Professor and Co-Director  
Molecular Basis of Disease**

In association with an expansion in biomedical research and graduate research training in selected interdisciplinary thematic areas of research, Albany Medical College announces the availability of a senior, tenured position as Professor with administrative responsibilities to codirect a new Interdisciplinary Research Group in Molecular Basis of Disease. Scientists with a Ph.D., M.D., or M.D.-Ph.D. currently at either the Associate Professor or Professor level are invited to apply. Applicants must have a track record of research excellence, NIH grant funding, and experience in mentoring graduate students or postdoctoral fellows. Ideal candidates should have expertise in either viral microbial pathogenesis, immunology, molecular genetics, microbial metabolism, immunopathology, or cancer biology. Departmental academic appointment can be in a basic science or clinical department.

Expansion of the College's research and scientific training programs coincides with funding of the Medical Center's new Institutional Strategic Research Plan by the Board of Directors designed to expand the size of the research faculty; develop core research support facilities; increase our basic and clinical research programs; and restructure the Ph.D. training programs in selected interdisciplinary areas. Other interdisciplinary thematic areas of emphasis include Vascular Biology; Neuropharmacology and Neuroscience; as well as Cell and Molecular Biology. Thematic areas of research will provide the foundation for interdisciplinary predoctoral and postdoctoral training programs. Interactions between the Interdisciplinary Research Groups and Clinical Centers of Excellence are projected. Excellent opportunities exist for joint collaborative research efforts with the Wadsworth Center at the New York State Health Department.

The research interests of the current faculty in the Interdisciplinary Research Group include microbial metabolism, microbial molecular pathogenesis, DNA damage and repair, oxidative stress, antigen presentation, nucleic acid structure and gene expression, cell cycle control, antibacterial drug resistance, as well as liver and breast cancer. The candidate selected will have an opportunity to recruit additional tenure-track faculty to the research group.

Applicants should submit curriculum vitae and a letter of intent to: **Thomas M. Saba, Ph.D., Senior V.P. for Research, Box A-134, Albany Medical College, Albany, NY 12208.**

*An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*



**Tenure Track  
Assistant Professor  
Developmental Biologist**

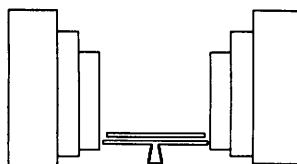
The Department of Molecular Biology and Pharmacology at Washington University School of Medicine is recruiting individuals at the level of Assistant Professor on the tenure track. We are seeking an outstanding scientist working in the area of developmental biology. Special emphasis will be given to research involving systems where genetic tools can be used to address fundamental questions dealing with development. Faculty in the Department of Molecular Biology and Pharmacology utilize a broad range of organisms including yeast, *C. elegans*, *Drosophila*, and mice to investigate cell fate specification, pattern formation, and the regulation of cell proliferation, differentiation, migration, and death. (Visit our website at <http://pharmsun.wustl.edu>.)

Interested applicants should forward a curriculum vitae and a short summary of research plans to:

**Search Committee (c/o Jeffrey I. Gordon, Head)  
Department of Molecular Biology and Pharmacology  
Washington University School of Medicine  
660 South Euclid Avenue, Box 8103  
St. Louis, MO 63110**

Applicants should also arrange to have three letters of recommendation sent to the same address.

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



**THE SALK INSTITUTE  
Postdoctoral  
positions in HIV  
molecular biology.**

Research will focus on the role of chemokine receptor gene regulation on AIDS pathogenesis, understanding the role of HIV accessory genes in HIV replication, and developing small animal models for HIV infection.

Send Curriculum Vitae, a statement of research interests, and the names and addresses of three references to:

**Nathaniel R. Landau, Ph.D.  
The Salk Institute  
10010 N. Torrey Pines Road  
La Jolla, CA 92037**

The Salk Institute is an  
Equal Opportunity Employer  
**[www.salk.edu](http://www.salk.edu)**



**INSTRUMENT  
MANAGER/  
SPECIALIST**

**CHEMISTRY DEPARTMENT**

**Swarthmore College**, a small highly selective liberal arts institution located in suburban Philadelphia, invites applications from qualified individuals interested in providing the management and repair of instructional/research laboratory instrumentation in a well-equipped undergraduate setting. Master's degree or equivalent and a minimum of 3 years relevant experience required. The successful candidate will be self-motivated, possess significant computer expertise, excellent interpersonal skills, and an ability & willingness to work cooperatively with students and faculty. Please send letter, resume and 3 letters of recommendation by Oct. 16 to: **Prof. Robert S. Paley, Chair, Chemistry Dept., Swarthmore College, 500 College Avenue, Swarthmore, PA 19081. Email: [rpaley1@swarthmore.edu](mailto:rpaley1@swarthmore.edu). Phone: (610) 328-8525. Fax: (610) 328-7355.**

For more information, please visit our website at [www.swarthmore.edu/NatSci/chemistry](http://www.swarthmore.edu/NatSci/chemistry).

**Swarthmore College is an equal opportunity employer committed to excellence through diversity.**

**UofL Health  
Sciences  
Center**

**Assistant/Associate  
Professor  
Molecular Genetic  
Mechanisms of Birth  
Defects**

Applications are invited for tenure-track appointments at the ASSISTANT or ASSOCIATE PROFESSOR level. Candidates must have a Ph.D. degree or the equivalent. Successful candidates will have at least 2 years of post-doctoral experience and an active research program focusing on molecular or molecular genetic mechanisms of normal and/or abnormal mammalian embryonic development. Applicants with expertise in the areas of gene targeting, developmental genetics, and genetic mapping are encouraged to apply. Successful candidates will be expected to establish and maintain an independent and innovative research program that attracts extramural funding. Opportunities exist to collaborate with faculty in the Birth Defects Center, the Center for Genetics and Molecular Medicine and the Child Evaluation Center, among others. Applicants should send a curriculum vitae, a description of research plans, and the names of three references to: **Dr. M. Michele Pisano, Search Committee, Dept. of Biological & Biophysical Sciences, 501 S. Preston St., University of Louisville, Louisville, KY 40292.**

*The University of Louisville is an EEO/AA employer. Women and minorities are encouraged to apply.*



# Pfizer

## Taking Scientific Excellence Beyond The Boundaries.

At Pfizer, the most innovative developments occur beyond the boundaries of conventional science. From your mind to our labs to global markets, we're constantly pushing the limits. Which means a single idea of yours could have the power and potential to change the lives of people the world over. Pfizer not only represents a well-resourced effort to create the next generation of medicines, but also a launch pad for high level career growth. Because discovering drugs is expensive, risky and time-consuming, we are 100% committed to hiring only the best in their fields: people who are curious, energetic and optimistic about the risks and rewards of drug research. The Pfizer approach is destined to improve our people, our pipeline and our prospects for continued scientific excellence.

The benefit of working with Pfizer extends far beyond the competitive salaries, relocation assistance, day care and volunteer programs. It's the chance to work and grow with a global leader who recognizes potential and capitalizes on opportunity. It's the ability to prove—and improve—yourself and your ideas.

**For immediate consideration, please forward your CV, indicating area of interest, to:**  
**Employee Resources,**  
**Central Research Division,**  
**Pfizer, Inc., Job Code**  
**#\_\_\_\_\_, Eastern Point Road,**  
**Groton, CT 06340.** We are an equal opportunity employer M/F/D/V. Pfizer's growth has created many career opportunities. For more information on positions in other disciplines, please visit our Web site: [www.pfizer.com](http://www.pfizer.com).

**Pfizer**  
**Central**  
**Research**  
Personnel Dept  
Ramsgate Road  
Sandwich, Kent CT13 9NJ  
UNITED KINGDOM

**Pfizer**  
**Pharmaceuticals**  
(Nagoya Plant/Research)  
5-Gotchi, Taketoyo-Cho  
Chita-Gun  
Aichi-Ken 470-23, JAPAN

For information on positions at these locations, contact addresses listed above.

### Associate Scientist

You will be responsible for the development of models of pulmonary inflammation and *in vivo* pharmacology studies. Requires proficiency in various dosing protocols, tissue collection/processing, and biochemical analysis of samples using methods including enzyme assays, ELISAs, RIAs. BS in Biology and experience with *in vivo* pharmacology and biochemical analyses required; MS and pharmaceutical industry experience desirable. Experience in pulmonary pharmacology or immunology and strong computer skills preferred. Job Code: 2819

### Research Investigator, Ph.D.

We are seeking a Biochemist working in the field of cytokine signal transduction to join an active, multidisciplinary team of investigators in the discovery of novel agents for the treatment of allergic and respiratory diseases including asthma and allergic rhinitis. Ph.D. in Immunology, Biochemistry, or related field and a minimum of 3 years' post-doctoral signal transduction research experience in an academic or industrial environment is required. Successful candidate will have a demonstrated record of independent and creative research on biochemical pharmacology of cytokine signal transduction. Job Code: 2820

### Research Investigator, Ph.D.

We are seeking an *in vivo* Immunologist to join a multidisciplinary team of scientists dedicated to the discovery of novel immunosuppressive drugs for the treatment of transplant rejection and autoimmune disease. The principle responsibilities of this individual include establishing and validating models of transplantation and autoimmune disease, evaluating *in vivo* pharmacodynamics and disease efficacy of candidate compounds. Ph.D. in Immunology or related field with expertise in the characterization of *in vivo* models required. Job Code: 2821

### Protein Structure and Function X-Ray Crystallographer

We seek a scientist interested in Post-Doctoral opportunity targeted at understanding the atomic basis of isozyme specific regulation of human glycogen phosphorylases by phosphorylation and allosteric effectors. These studies will focus on the X-ray structural determination of phosphorylases in different functional states and correlation of the structural results with kinetic and biochemical analyses. This position will be 36 months in length, with the first 18 months to be spent at Pfizer in the laboratory of Dr. Virginia Rath and the second 18 months to be spent at the University of California in San Francisco in the laboratory of Dr. Robert Fletterick. This jointly sponsored, bicoastal position offers a unique opportunity to experience the research environments of both a leading pharmaceutical company and the University of California. The successful applicant will have a strong background in all aspects of X-ray crystallography as well as expertise in the expression, purification and biochemical characterization of proteins. Publications in these areas are required. Job Code: 2833



*We're part of the cure.*





# The University of Texas at Austin

## Faculty Positions in Chemical and Structural Biology

The Institute for Cellular and Molecular Biology and the Department of Chemistry and Biochemistry invite applications for tenure track faculty positions. Researchers from all areas of Chemical and Structural Biology are welcome, but those with experience in X-ray crystallography are particularly encouraged to apply. The successful applicants will be expected to develop an aggressive research program, to participate in undergraduate and graduate education, and to contribute to a dynamic and interactive academic atmosphere. Chemical and Structural Biology is one area of emphasis within the new Institute for Cellular and Molecular Biology headed by Dr. Alan Lambowitz. The group is currently strong and will be augmented by vigorous growth, including fourteen new faculty hires at both the junior and senior level, over the next few years. Exceptional start-up packages are available.

Nestled in the Texas hill country, Austin is widely recognized as one of America's most beautiful and livable cities.

Candidates should submit a current curriculum vitae and a summary of research experience and future goals, together with at least three letters of recommendation. To assure full consideration applications should be received by November 1, 1998. Material should be sent to :

Dr. Jon Robertus  
Co-Chair of the Search Committee  
Department of Chemistry and Biochemistry  
The University of Texas  
Austin, TX 78712

or

Dr. Laurence Hurley  
Co-Chair of the Search Committee  
College of Pharmacy  
The University of Texas  
Austin, TX 78712

Visit The University of Texas at Austin Homepage <http://www.utexas.edu/>

*The University of Texas at Austin is an Equal Opportunity Employer. Qualified women and minorities are encouraged to apply.*

### SYMPOSIUM



### Society for Integrative and Comparative Biology 1999 Annual Meeting

**January 6-10, 1999  
Denver, Colorado**

#### *Co-Sponsors:*

Animal Behavior Society  
American Microscopical Society  
Julia B. Platt Club  
The Crustacean Society

### Don't Miss These Exciting Symposia!

- Organismal, Ecological and Evolutionary Significance of Heat Shock Proteins and the Heat Shock Response
- Evolutionary Origin of Feathers
- Tribute to Erika Plisetskaya: New Insights on Enteropancreatic Hormones
- Phenotypic and Genotypic Strategies to Chronic Hypoxia
- Endocrine Disrupting Contaminants: From Gene to Ecosystems
- Animal Consciousness: Historical, Theoretical and Empirical Perspectives
- Function and Evolution of the Vertebrate Axis
- Evolution of Starfishes: Morphology, Molecules, Development and Paleobiology
- Comparative Vertebrate Reproduction: Neuroendocrinology, Behavior and Life History Aspects
- Excellence in Invertebrate Biology: A Tribute to Alan J. Kohn

#### **For More Information...**

#### **SICB Business Office**

401 N. Michigan Ave. • Chicago, IL 60611  
312/527-6697 • Fax: 312/321-3700  
E-mail: [sicb@sba.com](mailto:sicb@sba.com) • <http://www.sicb.org>



# Your Rx for a better opportunity

Zeneca Pharmaceuticals is a recognized leader in applying biotechnology and bioinformatics to the pharmaceutical drug discovery process. Our research focus on advanced technology has led to the development of important new therapeutic agents in key categories, including cardiovascular, oncology, respiratory, CNS and anti-infectives. We are looking for scientists to join our pharmaceutical research team devoted to the discovery and development of innovative products to conquer currently unmet medical challenges. Openings include:

## **Behavioral Neuroscientist**

We seek a neuroscientist to develop behavioral screens for the evaluation of novel compounds within multidisciplinary teams and contribute significantly to CNS drug discovery. A Ph.D. and 2-4 years' experience in behavior models related to cognition and expertise in animal models of neurodegeneration are required (Job Code KF 0998-01).

## **Immunologist**

We have an opening for an immunologist to develop cellular assays of immune cell function, support multidisciplinary drug discovery teams, and contribute to new drug discovery opportunities in the areas of inflammation and immunology. Position requires a Ph.D. in immunology or related discipline and 2-5 years' postdoctoral experience in cellular immunology, with skills in cellular models of T-cell differentiation and function. Background in Th1/Th2 cell biology highly desirable (Job Code KF 0998-02).

## **Synthetic Chemists**

Join a team of scientists involved in the synthesis, isolation and characterization of novel organic compounds as candidates for drug discovery in a wide variety of therapeutic areas. A B.S./M.S. degree in organic chemistry and a strong background in organic synthesis, including the ability to conduct multistep synthetic sequences, chromatographic purifications, and spectral interpretations are required. Other positions also require experience with combinatorial libraries and solid-phase synthesis (Job Code DW 0998-01).

## **Analytical/Bioanalytical Chemists**

We seek candidates for multiple openings in preclinical discovery to participate in the development and application of high throughput methods for the evaluation of lipophilicity, solubility, pKa, chemical stability, metabolic stability, and pharmacokinetic profiling. B.S. or M.S. in chemistry, biochemistry, pharmaceutical sciences or pharmacology with a strong background in bioanalytical chemistry plus 0-5 years' experience in laboratory skills including knowledge of modern HPLC instrumentation required. One position will require skills in spectrometry for bioanalysis (Job Code DW 0998-02).

## **Postdoctoral Fellowships**

Epithelial Cell Biology – A fellowship is available to conduct research in the area of pulmonary inflammation. A Ph.D. in cell biology/biochemistry with expertise in epithelial cell biology is required (Job Code KF 0998-03). Neuropathic Pain – This fellowship will investigate novel ion channels related to neuropathic pain. A Ph.D. in cell physiology or molecular biology with a background in the area of neuropathic pain is required (Job Code KF 0998-04). Neurodegenerative Diseases – Two fellowships are available. The first will study molecular mechanisms of ischemia. A Ph.D. in pharmacology/neuroscience and experience in rodent models of ischemia are required (Job Code KF 0998-05A). The second fellowship will investigate the role of neuroinflammation in CNS diseases. A recent Ph.D. with expertise in molecular techniques and macrophage or glial cell biology is required (Job Code KF 0998-05B). Disease Pathogenesis – This fellowship will pursue novel molecular mechanisms involved in disease pathogenesis. A recent Ph.D. (<5 years) in biological sciences/biochemistry is required, with experience in immunology, ion channels, cell cycle and apoptosis, and chronic obstructive pulmonary disease is desirable (Job Code KF 0998-06).

Zeneca Pharmaceuticals offers competitive salaries, comprehensive flexible benefits, and opportunities for growth with one of the world's leading pharmaceutical organizations. To apply, please send your resume/c.v. and salary requirements, specifying the Job Code Number of the position in which you are interested, to: K. Riley, OW3, Human Resources, Zeneca Pharmaceuticals, 1800 Concord Pike, P.O. Box 15437, Wilmington, DE 19850-5437. Fax: 302-886-7124. E-mail: [hrposting@phwilm.zeneca.com](mailto:hrposting@phwilm.zeneca.com)  
To learn more about us, please visit our web site at [www.zeneca.com](http://www.zeneca.com) An Equal Opportunity Employer M/F/D/V.

**ZENECA** Pharmaceuticals  
A Business Unit of Zeneca Inc.





### MAIZE TRANSFORMATION

Research Associate (Job #CP-822S)

Senior Research Associate (Job #CP-823S)

Two positions are open immediately within the Crop Protection Department for individuals to play a leading role in development of transgenic corn with enhanced insect and disease resistance traits. For both positions, the ideal candidate is expected to have experience and knowledge of tissue culture and transformation methods using *Agrobacterium* and particle gun technology. The successful candidate will collaborate with members of a large interdisciplinary team devoted to gene evaluation and product development. The Senior Research Associate position requires a minimum of a M.S. or B.S. in Plant Biology or closely related fields, with at least 6 years' experience in plant tissue culture and transformation. Minimum requirements for the Research Associate position are B.S. or M.S. in Plant Biology or related fields, plus at least 2 years' experience. A strong ability to manage projects, organizational skills for timely completion of projects, excellence in written and verbal communication are required, as is extensive familiarity with statistics and MS Office software such as Microsoft Word, Excel, and Access. Application deadline: October 9, 1998; however applications will be considered until the position is filled.

For consideration, please send 3 copies of cover letter and resume, indicating specific job number to: Pioneer Hi-Bred International, Inc.; ATTN: Human Resources - Research, PO Box 1004; Johnston, IA 50131-1004; e-mail: [jobsresearch@phibred.com](mailto:jobsresearch@phibred.com). Visit our web site: <http://www.Pioneer.com>.



**Pioneer Hi-Bred International, Inc.**

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**Government of Canada  
Gouvernement du Canada**

### 1998-99 Visiting Fellowships in Canadian Government Laboratories

The Government of Canada offers visiting fellowships to provide young scientists and engineers with the opportunity to work with well-established research groups in Canadian government laboratories. These fellowships are tenable in the laboratories of the following departments and agencies.

**Agriculture and Agri-Food Canada  
Canadian Museum of Nature  
Canadian Space Agency  
Environment Canada  
Fisheries and Oceans Canada**

**Health Canada  
Industry Canada  
National Defence  
National Research Council Canada  
Natural Resources Canada**

**Eligibility:** Applicants must have received a doctorate from a recognized university within the last five years. There are no citizenship restrictions. Successful candidates who are not Canadians or permanent residents must satisfy Canadian immigration requirements.

**Stipend:** The names of successful applicants are placed on an inventory. If an applicant is selected by one of the departments above, he or she will receive a fellowship with an annual value of \$35,184, plus a travel allowance.

**Duration of tenure:** Appointments are made for one year; renewals for a second and third year are possible.

**Date of submission:** There are no application deadlines for this program. For further information, contact the:

#### Visiting Fellowships Program

**Natural Sciences and Engineering Research Council of Canada  
Ottawa, Ontario, Canada K1A 1H5**

**Telephone: (613) 996-3762; E-mail: [z-distribution@nserc.ca](mailto:z-distribution@nserc.ca)**

**Internet: <http://www.nserc.ca/programs/visien.htm>**

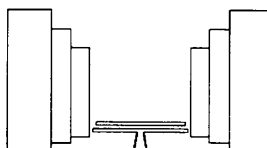
**Canada**

### Department of Molecular Biology Faculty Position

A tenure track or tenured position is available at the Associate Professor or Full Professor level in the Department of Molecular Biology, University of Medicine and Dentistry of New Jersey-School of Osteopathic Medicine. Applications are invited from individuals with research interests in the general areas of molecular oncology or developmental biology. Experience with transgenic technologies and gene-targeting are highly desirable.

The successful candidate will have an independent, extramurally funded research program and will also be expected to participate in the teaching of Osteopathic Medical students and Graduate students. Exceptional salary, start-up and support packages are available to the successful candidate.

Interested individuals should send their curriculum vitae, a statement of research interests, and the names of three individuals willing to write a letter of reference, to: **Sal J. Caradonna, Ph.D., Chair, Department of Molecular Biology, UMDNJ-School of Osteopathic Medicine, Two Medical Center Drive, Stratford, New Jersey 08084. Website: [www3.umdj.edu/mobiweb/molebio.html](http://www3.umdj.edu/mobiweb/molebio.html). UMDNJ, NJ's University of the Health Sciences, is an Affirmative Action/Equal Opportunity Employer, M/F/D/V, and a member of the University Health System of New Jersey.**



### THE SALK INSTITUTE POSTDOCTORAL POSITIONS NEUROBIOLOGY OF SENSORY-MOTOR LEARNING

Two postdoctoral positions are available to study neural mechanisms of plasticity in eye movements. One project involves behavioral analyses in transgenic mice to investigate how cerebellar signals influence sensory-motor learning. A second project will focus on cellular mechanisms of plasticity and involves intracellular and patch clamp recordings of neurons visualized in brain slices. Applicants should have experience in animal behavior and/or electrophysiology. Send CV, a statement of research interests, and the names and email addresses of 3 references to:

**Sascha du Lac, Ph.D.  
Systems Neurobiology Laboratories,  
The Salk Institute for Biological Studies,  
10010 North Torrey Pines Road,  
La Jolla, CA. 92037.  
E-mail: [sascha@salk.edu](mailto:sascha@salk.edu).  
[www.salk.edu/faculty/dulac.html](http://www.salk.edu/faculty/dulac.html)**

The Salk Institute is an  
Equal Opportunity Employer

**[www.salk.edu](http://www.salk.edu)**

### Neuroscience Assistant Professor

The Department of Physiology, University of Wisconsin, invites applications for a tenure-track Assistant Professor position in Neuroscience. We seek candidates who use molecular and cellular approaches in their research and are especially interested in recruiting an individual who uses such approaches in a broader context, i.e., cellular, circuit or systems function. Current departmental focuses in neuroscience include cell signaling, synaptic mechanisms, ion channel structure-function, hearing and motor systems. The successful candidate will participate fully in the teaching programs of the department. Please send a current CV, a 1-2 page summary of research interests and plans for the future, and 3 letters of reference to:

**Meyer Jackson, Ph.D.  
Chair, Search and Screen Committee  
Department of Physiology, 127 SMI  
UNIVERSITY OF WISCONSIN  
1300 University Avenue  
Madison, WI 53706**

Applications must be submitted by November 15, 1998 to assure full consideration. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.



**UNIVERSITY OF  
WISCONSIN-MADISON  
MEDICAL SCHOOL**

Howard Hughes Medical Institute

# Predoctoral Fellowships in Biological Sciences

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## 1999 Competition

80 fellowships will be awarded by the Howard Hughes Medical Institute for study toward a Ph.D. or Sc.D. degree in the biological sciences listed below. Awards, based on an international competition, focus on research directed to understanding basic biological processes or disease mechanisms. Fellowships may be held at academic or research institutions with appropriate degree programs.

---

## Fellowship Terms

- Full-time study toward the Ph.D. or Sc.D.
- Up to five years of support possible
- \$15,000 annual stipend
- \$15,000 annual cost-of-education allowance

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## Eligible Fields of Study

biochemistry	genetics	neuroscience
biophysics	immunology	pharmacology
biostatistics	mathematical and	physiology
cell biology	computational biology	structural biology
developmental biology	microbiology	virology
epidemiology	molecular biology	

---

## Eligibility

- Beginning graduate study (prior study toward an M.P.H. or a medical degree does not rule out eligibility)
  - college seniors
  - first year graduate students
  - medical students and physicians (M.D., D.O., D.D.S., or D.V.M.) not past the first year of a Ph.D. or Sc.D. degree program
- Not in a funded M.D./Ph.D. program
- No citizenship requirements for application; U.S. citizens may study abroad, but others must study in the United States

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## Schedule

Application deadline: November 10, 1998

Awards announced: early April 1999

Fellowships start: June 1999–January 2000

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## 1999 Program Announcements, Eligibility Guidelines, and Applications

Hughes Fellowship Program  
Fellowship Programs Unit  
National Research Council  
2101 Constitution Avenue  
Washington, DC 20418, United States of America  
Telephone (202) 334-2872  
Fax (202) 334-3419  
E-mail [infofell@nas.edu](mailto:infofell@nas.edu)  
<http://fellowships.nas.edu>

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.



## POSITIONS OPEN

### TENURE-TRACK FACULTY POSITIONS MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Center for Cancer Research and  
Department of Biology

Position in molecular cell biology. Applicants are sought for an appointment at the level of **ASSISTANT PROFESSOR** (tenure-track) in the area of vertebrate cell biology. Areas of emphasis include, but are not limited to, intercellular communication, signal transduction, cell adhesion and migration, metastasis and angiogenesis, stem cell biology, and control of genome stability.

The appointment will require supervision of an active research program as well as undergraduate and graduate teaching.

Applicants should include a curriculum vitae, brief summaries of past accomplishments, and future research plans. Letters of recommendation should be sent separately from three scientists who can provide an evaluation of the candidate's accomplishments and future potential for both research and teaching.

Applications and letters should be sent to:

**Molecular Cell Biology Search Committee**  
E17-110, Center for Cancer Research  
Massachusetts Institute of Technology  
77 Massachusetts Avenue  
Cambridge, MA 02139

Position in immunology. Applicants are sought for an appointment in the area of immunology. Rank will depend on qualifications and experience. Applicants should have demonstrated productivity in research in immunology. Areas of concentration include, but are not limited to, innate immunity, autoimmunity, signalling within or between immune cells, hematopoiesis, infectious disease, and tumor-host interactions.

The appointment will require supervision of an active research program as well as undergraduate and graduate teaching.

Applications should include a curriculum vitae, brief summaries of past accomplishments, and future research plans. Letters of recommendation should be sent separately from three scientists who can provide an evaluation of the candidate's accomplishments and future potential for both research and teaching.

Applications and letters should be sent to:

**Immunology Search Committee**  
E17-110, Center for Cancer Research  
Massachusetts Institute of Technology  
77 Massachusetts Avenue  
Cambridge, MA 02139

MIT is an Equal Opportunity/Affirmative Action Employer.

### ASSISTANT PROFESSOR COLUMBIA UNIVERSITY CENTER FOR RADIOLOGICAL RESEARCH

Immediate opening for a tenure-track faculty position for candidates with a Ph.D. and/or M.D.-Ph.D. degree in radiation biology, molecular genetics, or other related disciplines. Candidate must have an outstanding track record for independent research and an interest in cell biology and molecular genetics to study (1) oxidative stress and cell signal transduction pathways and (2) radiosensitivity and cell cycle checkpoint control in mammalian cells. Send curriculum vitae, names and addresses of three references, and a statement of current and future research plans to: **Dr. Eric J. Hall, Center for Radiological Research, Columbia University, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

The Institute of Molecular Biology and the Department of Chemistry at the University of Oregon seek a tenure-track faculty member using biochemistry, structural or physical biochemical methods to investigate modern problems in biology. Possible research interests include, but are not limited to, macromolecular assemblies, signaling biochemistry, cell biology, the central nervous system, and development. We anticipate filling this position at the **ASSISTANT PROFESSOR** level, although more senior candidates will be considered. Interested persons should forward curriculum vitae and statement of research interests, and have three reference letters sent to: **Frederick W. Dahlquist, Chair, Biochemistry Search Committee, Department of Chemistry, 1253 University of Oregon, Eugene, OR 97403.**

The closing date is November 15, 1998. *The University of Oregon is an Affirmative Action/Equal Opportunity/ADA Institution committed to cultural diversity.*

## POSITIONS OPEN

### VIROLOGIST FACULTY POSITION THE UNIVERSITY OF MARYLAND, COLLEGE PARK

As part of an ongoing expansion, the Department of Cell Biology and Molecular Genetics invites applications for a faculty position in virology. Applicants are being sought at the **SENIOR** or **JUNIOR RANK** who use innovative molecular, genetic, and biochemical approaches to investigate fundamental problems in virology. The successful applicant should complement existing strengths in molecular genetics, cell biology, or immunology. The University of Maryland is within the Washington, D.C. metropolitan area and is close to the NIH, Naval Medical Research Laboratories, and the Agricultural Research Center, and offers many opportunities for collaborative research. The appointment includes a highly competitive package consisting of generous start-up funds, newly renovated laboratory space, and access to state-of-the-art core facilities. An outstanding research record and a solid history of generating research support are prerequisite for an appointment at a tenured rank. Teaching responsibilities include participation in the undergraduate and graduate programs. Applicants should send curriculum vitae, a statement of current and future research interests, copies of three to five representative publications, and three letters of reference directly to: **Dr. E. Gantt, Chair of the Search Committee, Department of Cell Biology and Molecular Genetics, University of Maryland, College Park, MD 20742.** For best consideration, application material should be received by November 10, 1998. *The University of Maryland is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

### ASSOCIATE DEAN FOR BIOMEDICAL PROGRAMS CHARLES E. SCHMIDT COLLEGE OF SCIENCE Florida Atlantic University

Florida Atlantic University (FAU) seeks to appoint an Associate Dean for Biomedical Programs who will coordinate graduate teaching programs and research initiatives in biomedical areas. In support of these programs, a Department of Biomedical Sciences has been created. Together with existing programs and outside affiliations, FAU intends to develop a biomedical science program of international renown to serve the rapidly growing population of South Florida.

As part of this initiative, FAU and the University of Miami School of Medicine (UMSM) have recently established a Partnership for Quality Medical Education, the purpose of which is to undertake feasibility planning of a joint medical education program, in which FAU would provide preclinical training to medical students. After successful completion of the preclinical program, students would complete their medical education at the UMSM.

This initiative has been underwritten by an extraordinary gift of \$15 million from the Schmidt Family Foundation to be matched by an equal amount from the State of Florida. A 90,000-square-foot facility, the Charles E. Schmidt Biomedical Science Center, will be constructed to house the new department and programs, and an endowment established to ensure ongoing support for research and teaching of distinction.

The individual chosen to fill this new position will have an M.D. and/or Ph.D. degree, and have demonstrated experience in the development and administration of biomedical programs, including curriculum development and management. The Associate Dean will be expected to lead the establishment of biomedical programs and coordinate relationships with internal and external partners.

The Charles E. Schmidt College of Science is centered on the Boca Raton campus of FAU in Palm Beach County, approximately 50 miles north of Miami.

By October 22, 1998, interested individuals should submit their curriculum vitae and list of references to: **Dr. Gary W. Perry, Acting Associate Dean, Charles E. Schmidt College of Science, Florida Atlantic University, P.O. Box 3091, Boca Raton, FL 33431** who may also be contacted by e-mail: [perryg@fau.edu](mailto:perryg@fau.edu).

*Florida Atlantic University is an Equal Opportunity/Access/Affirmative Action Institution.*

## POSITIONS OPEN

### BIOLOGY DEPARTMENT HEAD

Applications are invited from persons qualified for appointment as Full Professor to serve as Head of the Department of Biology at James Madison University. Candidates must have a Ph.D. in a biological science, administrative experience, excellent interpersonal and communication skills, and the professional credentials to lead a department that has a strong record in both undergraduate teaching and research. Area of specialization is open. The Head will participate in teaching at the introductory level and at the advanced level in areas of special interest.

The Department Head is responsible for overseeing departmental curriculum, budget, and personnel actions. The Head is expected to consult and work effectively with all members of the administrative leadership team and the departmental faculty to reach university, college, and departmental goals; to encourage, advise, and assist faculty in reaching their full potential as teachers/scholars; and to lead the department into a future with its changing educational environments. This position has the potential for expanded responsibility and broader leadership opportunities. In this regard, the Head will be expected to take an active role in the implementation of new programs and development of partnerships between biology and other units in the university.

The department has 27 full-time faculty members and 12 staff members or part-time instructors. In addition to having about 700 undergraduate majors and 10 Master's students, the department makes a substantial contribution to the education of health-related majors and is committed to the university's General Education program. The department has well-equipped laboratories and its faculty is currently active in a variety of research programs (see website: <http://www.jmu.edu/biology/>). The members are characterized as being very cooperative in solving problems, and in sharing equipment and resources.

The university is a state-aided institution with an enrollment of 14,000 undergraduate and 800 graduate students and is strongly committed to excellence in teaching and research. James Madison University has as one of its objectives the development of a diverse student body. The university is seeking faculty members with experience in advising, counseling, and teaching minority, female, and disabled students. JMU is consistently highly ranked in national publications and is selective in its admissions. It is located in the heart of the Shenandoah Valley of Virginia, approximately 20 miles west of the Blue Ridge Mountains and Shenandoah National Park and 20 miles east of the Appalachian Mountains. The major population areas of Washington, D.C., Richmond, and Roanoke are about 2-hour drives away. Harrisonburg, a city of 30,000, is about 15 minutes from the Shenandoah Valley Airport and less than an hour from the Charlottesville/Albemarle County Airport.

Anticipated date of employment is July 1, 1999. Salary is competitive. A complete application consists of a letter of application, curriculum vitae, philosophies of teaching and administrative leadership, long-term goals and research interests, and a list of at least five references including their addresses, telephone numbers, and e-mail addresses.

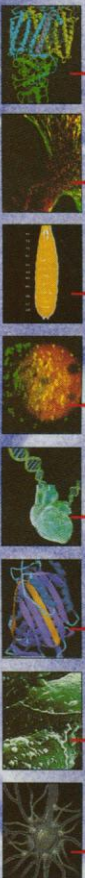
Applications received by October 23, 1998, will be assured consideration. Application materials should be sent to:

**John W. Gilje, Chairman**  
**Biology Department Head Search Committee**  
c/o College of Science and Mathematics, MSC 7502  
James Madison University  
Harrisonburg, VA 22807

See website: <http://www.jmu.edu/biology/jobs.html> for details.

*James Madison University is an Equal Opportunity/Affirmative Action/Equal Access employer and especially encourages applications from minorities, women, and persons with disabilities.*

The Department of Chemistry of The University of Chicago invites applications from outstanding individuals for the position of **ASSISTANT PROFESSOR** of chemistry. This search is in the areas broadly defined as inorganic and organic chemistry. Postdoctoral experience is preferred. Applicants should submit a curriculum vitae, a list of publications, and a succinct outline of their research plans. Candidates should arrange for three letters of recommendation to be sent directly to: **James R. Norris, Jr., Chairman, Department of Chemistry, The University of Chicago, 5735 South Ellis Avenue, Chicago, IL 60637.** Deadline for application materials is October 31, 1998. *An Equal Opportunity/Affirmative Action Employer.*



- BIOCHEMISTRY & MOLECULAR BIOLOGY
- CELL REGULATION
- GENETICS & DEVELOPMENT
- IMMUNOLOGY
- INTEGRATIVE BIOLOGY
- MOLECULAR BIOPHYSICS
- MOLECULAR MICROBIOLOGY
- NEUROSCIENCE

# Take a closer look

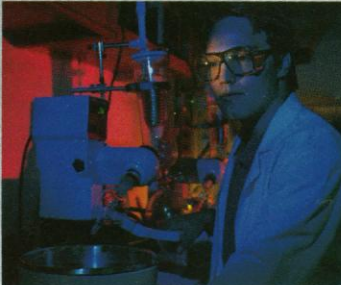
## at the Division of Cell and Molecular Biology at UT Southwestern . . .

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 A complete catalogue of our programs, our faculty and their research interests, as well as an on-line application, can be found on our Web Page.

Or contact: **Nancy McKinney/**  
**Southwestern Graduate School**  
**of Biomedical Sciences**  
**5323 Harry Hines Boulevard**  
**Dallas, Texas 75235-9042**  
**Telephone (800) 833-6134**  
**nancy.mckinney@email.swmed.edu**

Application for the M.D./Ph.D. program is made through the medical school. For information, please contact:  
**Ms. Robin Downing/**  
**MSTP Coordinator**  
**Office of the Associate Dean**  
**UT Southwestern Medical Center**  
**Dallas, Texas 75235-9033**  
**Telephone (800) 633-6787**  
**robin.downing@email.swmed.edu**



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 AT DALLAS



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Research Hospital**  
ALBAC • Danny Thomas, Founder

### POSTDOCTORAL RESEARCH POSITION ROLE OF NEF IN HIV PATHOGENESIS

An immediate opening is available for a recently graduated postdoctoral fellow to conduct research in the area of HIV pathogenesis; specifically, the analysis of Nef function. A strong background in molecular and cell biology substantiated by peer reviewed publications is essential. Knowledge in cell signaling pathways, protein purification, and/or retrovirology would be beneficial.

For consideration, please submit a current curriculum vitae, a list of publications, and the names and addresses of three references to:

**Dr. J. Victor Garcia**  
**Associate Member**  
**Department of Virology & Molecular Biology**  
**St. Jude Children's Research Hospital**  
**332 N. Lauderdale Street**  
**Memphis, TN 38105-2794**

Please visit our web site: [www.stjude.org](http://www.stjude.org)  
 Affirmative Action/Equal Opportunity Employer


FAIRFIELD UNIVERSITY

## Department of Biology

### CELL BIOLOGIST

Assistant Professor, tenure-track position. Areas of research may include, but are not limited to signal transduction, apoptosis, and cell cycle control, protein trafficking, or cellular adhesion. Expertise with eukaryotic organisms and experience in cellular and molecular techniques are necessary. Preferred teaching responsibilities include an upper division lecture/laboratory course in cell biology and the development of upper division elective courses. Participation in the introductory biology course, undergraduate research and grant-writing initiatives is expected. Position to start September 1999. Candidates with a Ph.D. and a strong commitment to undergraduate teaching and research are encouraged to apply. Start-up funds are available. Salary and benefits are competitive.

Qualified candidates should send a letter of application, curriculum vitae, statement of teaching goals, statement of research interests and goals (including how you would involve undergraduates), selected reprints and arrange for three letters of reference to be sent to: **Search Committee Chair, Eukaryotic Cell Biologist Position, Biology Department, Fairfield University, Fairfield, CT 06430.** The deadline for completed applications is November 15th.



**Fairfield  
UNIVERSITY**

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



## POSITIONS OPEN

### FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY UNIVERSITY OF IOWA College of Medicine

The Department of Biochemistry of the University of Iowa seeks highly qualified applicants for one or more tenure-track positions at the **ASSISTANT PROFESSOR** level. Preference will be given to applicants with research interests in the area of structural biology, although quality of research, not the specific research area, will be the primary selection criterion. Salaries are competitive and will depend on qualifications and experience. Support for equipping laboratories and initiating research programs will be excellent.

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

Applicants should include a complete curriculum vitae and a summary of future research plans. Applicants should ask three scientists familiar with their work to write letters of reference. For full consideration, completed applications should be submitted by November 15, 1998, to: **John E. Donelson, Head, Department of Biochemistry, College of Medicine, University of Iowa, Iowa City, IA 52242-1109. Telephone: 319-335-7934.**

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

### FACULTY POSITION DEPARTMENT OF PHARMACEUTICS COLLEGE OF PHARMACY University of Florida

The Department of Pharmaceutics is seeking to fill a full-time tenure-track faculty position at the **ASSISTANT PROFESSOR** level. Candidates should hold a Pharm.D., or Ph.D. in an appropriate related discipline, with postdoctoral experience.

The successful candidate is expected to develop an independent but interactive research program and participate in professional and graduate instructional efforts of the college. Individuals with demonstrated productivity using cellular or molecular approaches to the study of drug delivery and transport or other related areas are encouraged to apply. Additional information on the Department and ongoing research projects are available at **website: <http://www.cop.ufl.edu>.**

Applicants should send curriculum vitae, a brief description of research interests, and three letters of recommendation by December 1, 1998 to:

**Dr. Jeffrey Hughes**  
Chairman  
Pharmaceutics Search Committee  
College of Pharmacy  
University of Florida  
Box 100494, JHMH  
Gainesville, FL 32610

For further information, Telephone: 352-846-2725; e-mail: [hughes@cop.health.ufl.edu](mailto:hughes@cop.health.ufl.edu).

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

### ASSISTANT/ASSOCIATE PROFESSOR DEPARTMENT OF CELLULAR BIOLOGY AND ANATOMY

Tenure-track faculty position available for a Ph.D./M.D. **CELLULAR** or **DEVELOPMENTAL NEUROSCIENTIST** with postdoctoral training in vertebrate sensory or central nervous systems. All outstanding candidates will be considered, but those using electrophysiological, molecular, and/or functional imaging techniques are encouraged to apply. Associate level must have current federal funding. Faculty are expected to participate in team-taught medical neuroscience and graduate cell biology courses. Faculty interests include olfaction, obesity, ethanol immunobiology/toxicology, extracellular matrix proteins, and cancer cell/molecular biology. Excellent facilities and start-up funds are available. Send curriculum vitae, research descriptions, and references to: **Leonard L. Seelig, Ph.D., Department of Cellular Biology and Anatomy, Louisiana State University Medical Center, P.O. Box 33932, Shreveport, LA 71130-3932. LSUMC is an Affirmative Action Employer.**

## POSITIONS OPEN

### TWO FACULTY POSITIONS COMPARATIVE PHYSIOLOGY PLANT DEVELOPMENTAL BIOLOGY

Applications are invited for two entry-level tenure-track positions as **ASSISTANT PROFESSORS**, one in whole-animal comparative physiology and the other in plant developmental biology. Ph.D. required. Annual teaching responsibilities of the comparative physiology position will include participation in a core course in organismal biology for majors, upper-level courses in area of specialty, and possibly a course for non-majors. The plant developmental biology teaching responsibilities will include developmental biology, upper-level courses in area of specialty, participation in a core course in organismal biology for majors, and possibly a course for non-majors; the ability to teach animal development is also required. The successful candidates will be provided laboratory space to establish an active research program involving undergraduates for which start-up funds are available. Cover letter addressing teaching philosophy and research goals, curriculum vitae, and three letters of recommendation should be submitted to:

**Dr. Wayne F. McDiffett, Chair**  
Department of Biology  
Bucknell University  
Lewisburg, PA 17837  
E-mail: [mcdiffett@bucknell.edu](mailto:mcdiffett@bucknell.edu)  
Telephone: 717-524-1124  
FAX: 717-524-3537

**Website: <http://www.departments.bucknell.edu/biology/>**

Review of applications will begin on October 30, 1998, and the search will remain open until the position is filled. *Bucknell University encourages applications from women and members of minority groups. Equal Employment Opportunity/Affirmative Action.*

### FACULTY POSITION IN NEUROBIOLOGY

The Department of Physiology and Neurobiology at the University of Connecticut, Storrs, is continuing to expand and invites applications for an anticipated tenure-track faculty position available fall 1999 at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. This is the third of several new faculty positions that the department expects to fill over the next few years. Successful candidates will be expected to maintain an independent and vigorous research program, and participate in the department's graduate and undergraduate teaching. We are interested in an individual whose research focuses on molecular and cellular approaches to study the central nervous system and whose interests integrate with the expertise currently present within the department. Consult **website: <http://predator.pnb.uconn.edu/facsearch.html>** for descriptions of our research areas and for information about our graduate and undergraduate programs. Applicants must possess a Ph.D. or equivalent, and have completed at least two years of postdoctoral training. Candidates for Associate Professor are expected to have a currently funded and active research program. Send a curriculum vitae, brief summary of current research with a statement of future research directions, and names of at least three references to: **Chair, Physiology/Neurobiology Search Committee, Department of Physiology and Neurobiology, The University of Connecticut, Box U-156, 3107 Horsebarn Hill Road, Storrs, CT 06269-4156. We encourage applications from underrepresented groups, including minorities, women, and people with disability.**

University of Maryland, Baltimore County (UMBC) seeks applicants for a tenure-track **ASSISTANT PROFESSOR** position in macromolecular X-ray crystallography. Candidates will be expected to develop a vigorous research program and teach at the graduate and undergraduate levels. This appointment, in the Department of Chemistry and Biochemistry, will be supported with new instrumentation and other laboratory needs, and will complement existing programs in structural biology including biomolecular NMR, fast spectroscopy, and mass spectrometry. Applicants should submit a curriculum vitae, a short description of future research plans, and have three letters of reference sent to: **The X-ray Crystallography Search Committee, Department of Chemistry and Biochemistry, University of Maryland, Baltimore County, Baltimore, MD 21250. Applications will be accepted until the position is filled. UMBC is an Affirmative Action/Equal Opportunity Employer and applications from qualified women, minorities, and individuals with disability are encouraged.**

## POSITIONS OPEN

**TENURED FACULTY POSITION/SPECIALIST** in DNA sequencing/chemistry. The Department of Chemical Engineering in the School of Engineering and Applied Sciences is recruiting a senior faculty member, for **ASSOCIATE PROFESSOR** or **PROFESSOR** (depending on qualifications), with a joint appointment as head of the DNA Sequencing/Chemistry Section of the Columbia Genome Center. The successful candidate will be expected to initiate and carry out independent research focused on high-throughput DNA sequencing and gene discovery, and to direct all of the activities of the section in the Genome Center. The candidate will also be responsible for academic duties associated with B.S., M.S., and Ph.D. curricula in the Department of Chemical Engineering and must have distinguished research accomplishments, as well as excellent teaching skills.

Qualifications: Ph.D. or equivalent terminal degree required in either chemical engineering, chemistry, biochemistry, or biophysics. Significant achievements in large-scale DNA sequencing and/or gene discovery, and communication skills appropriate for teaching undergraduate and graduate engineering students are required for this position. Relevant experience in the pharmaceutical and/or biotechnology industries may be included in the documentation provided by the applicant. Salary will be based on qualifications. Applications should be sent before December 1, 1998, to ensure full consideration. Send a complete résumé and bibliography and the names and addresses of at least three references to: **Dr. I. S. Edelman, Director, The Columbia Genome Center, College of Physicians and Surgeons of Columbia University, 650 West 168th Street, New York, NY 10032. Starting date: mid-1999. Columbia University is an Equal Opportunity Employer.**

### FACULTY POSITIONS IN VIROLOGY AND EUKARYOTIC PATHOGENS Washington University Medical School in St. Louis

The Department of Molecular Microbiology at the Washington University School of Medicine solicits applications for two tenure-track appointments as **ASSISTANT PROFESSOR**, beginning in the fall of 1999. Our program has a strong emphasis on microbial pathogenesis in prokaryotic, viral, and eukaryotic systems (information can be found at **website: [www.microbiology.wustl.edu](http://www.microbiology.wustl.edu)**). There are numerous common research facilities in our department and university, and tremendous potential for collaborative interactions. We are seeking interactive individuals with a commitment to teaching and establishing a vigorous and outstanding independent research program. In virology, we are especially interested in those Investigators focusing on viral pathogenesis, broadly defined, particularly in systems other than the herpes virus family. For eukaryotic microbial pathogens, we seek individuals focusing on pathogenesis in fungal and protozoal diseases, and/or basic studies of the causative organisms. Applicants should send a detailed curriculum vitae, a few selected reprints, a brief description of current and planned research interests, and arrange to have three letters of reference sent by November 15, 1998, to: **Dr. Stephen M. Beverley, Chairman of Molecular Microbiology, Attn: Faculty Search Committee, Washington University School of Medicine, Campus Box 8230, 660 South Euclid Avenue, St. Louis, MO 63110.**

*WUMS is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.*

**MARINE BIOLOGIST.** Tenure-track **ASSISTANT PROFESSOR** beginning August 1999. Successful candidate will teach undergraduate courses and graduate course in evolution, direct graduate students, and maintain an active research program that employs molecular techniques. Ph.D. and postdoctoral experience required. Send curriculum vitae, a brief statement of research and teaching interests, all transcripts, names of three references, and selected reprints by 30 October 1998 to: **Dr. Joseph Pawlik, Department of Biological Sciences, University of North Carolina at Wilmington, Wilmington, NC 28403-3297. UNCW is situated on a 640-acre campus located in an historic port city on the Cape Fear River, within five miles of the Atlantic Ocean. The department has 35 full-time faculty, with 500 undergraduate majors in biology, marine biology, and clinical laboratory sciences and 75 students enrolled in Master's programs in biology and marine biology. It also participates in a joint Ph.D. program with NC State University. Please see our **website: [uncwil.edu](http://uncwil.edu)** for additional information or contact e-mail: [pawlikj@uncwil.edu](mailto:pawlikj@uncwil.edu). UNC Wilmington is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.**

## HEALTH SCIENTIST ADMINISTRATORS

(Biological Sciences) GS-601-12/13/14

The National Institutes of Health, National Institute of General Medical Sciences (NIGMS) is seeking two individuals who will be responsible for stimulating, planning, advising, directing, and evaluating program activities for a portfolio of research grants. In addition, the incumbents will provide scientific expertise in the areas of science listed below and serve as a source of technical competence. These positions are in the Federal Civil Service with a salary range of \$47,066 - \$85,978.

**ONE VACANCY IS WITHIN THE BIOCHEMISTRY AND BIORELATED CHEMISTRY BRANCH** and the incumbent will provide scientific expertise in the areas of biochemistry and/or analytical biochemistry. Applicants interested in applying must have a knowledge of biochemistry and/or analytical biochemistry; the ability to work effectively as part of a team or organization; the ability to make critical judgments about the management and evaluation of biomedical research; and the ability to write about complex scientific topics for both scientific and non-scientific audiences. **Closing date for this position is October 19, 1998. FAX ID#: 3603**

**THE SECOND VACANCY IS IN THE BIOPHYSICS BRANCH** and the incumbent will provide expertise in the areas of cell biology and biophysics. Applicants interested in applying must have a knowledge of cell biology and biophysics; the ability to work effectively as part of a team or organization; the ability to make critical judgments about the management and evaluation of biomedical research; and the ability to write about complex scientific topics for both scientific and non-scientific audiences. **Closing date for this position is November 16, 1998. FAX ID#: 3604**

For application package(s), qualification requirements and additional position information, contact:

**NIGMS Personnel Office, 45 Center Drive - MSC 6200, Bethesda, MD 20892-6200; (301) 594-2749. TDD (301) 480-3994.**

To receive by FAX, call (301) 594-2953 or 1-800-728-JOBS and enter FAX ID number(s) listed above.

U.S. Citizenship is Required  
NIH is an Equal Opportunity Employer

## Pacific Northwest National Laboratory

The Pacific Northwest National Laboratory (PNNL), located in Richland, Washington and operated by Battelle for the U.S. Department of Energy has immediate employment opportunities available. The Laboratory employs 3,700 and has an annual budget of more than \$500 million. Currently laboratory staff are engaged in 2,000 research projects.

**Molecular Biology Initiative** is a new multidisciplinary initiative in cell signaling intended to foster research at the confluence of the biological, physical, and information sciences. The initiative, with prokaryotic and eukaryotic components, will integrate the Laboratory's biological research and define the characteristics of a new state-of-the-art cell signaling facility in support of the Laboratory's role as a "Premier Environmental National Laboratory." The opportunity exists to build a major multicomponent, multidisciplinary research and development cell signaling program. The program will define research and new technology needs in the next 5-10 years that will lead to the construction of a world-class center in cell signaling and exploit the capabilities of the Environmental Molecular Sciences Laboratory, the DOE's newest national user facility.

At this time we are inviting applications for the following initiative leadership positions.

### Initiative Director

The Director's responsibilities will include planning, development, implementation, promotion, and coordination of the initiative's science and technology components for the post-genome era of biology. Successful candidate should have a M.D. or Ph.D. degree in the life sciences and have been in a leadership position for more than five years with proven records of accomplishment in the molecular biology of cell signaling research and development of new multidisciplinary programs. Successful candidate should possess strong leadership qualities in biological sciences and be innovative, creative, communicative, and dynamic. The successful candidate will document a solid scientific background, experience in research management at a high level, and a well-established reputation. While the ultimate initiative goal is to understand cell signaling in human cells, experts in nonhuman model systems are encouraged to apply.

### Cell Signaling Senior Investigator

The investigator's responsibilities will include planning, development, and implementation of the initiative's cell signaling research portfolio. Successful candidate should have a M.D. or Ph.D. degree in the life sciences. The successful candidate is required to have a minimum of five years of research experience beyond postdoctoral work and an outstanding record of research and publications in the molecular biology and/or cellular biology of cell signaling. Experts in microbial and/or eukaryotic cell signaling are encouraged to apply.

### Cellular Observatory Senior Investigator

The investigator's responsibilities will include design, development, implementation, and utilization of a cellular observatory to make *in situ* real-time, dynamic measurements in cell signaling research. Measurement capabilities are expected to include high-resolution optical microscopy (including fluorescent labeling and fluorescent energy transfer measurement capabilities), magnetic resonance methods, and electronic probes. Successful candidate should have a Ph.D. in a physical science (physics, chemistry, physical chemistry, or chemical engineering preferred) with applications experience in biological systems highly desirable. The successful candidate is required to have a minimum of five years of research experience beyond postdoctoral work and an outstanding record of research and publications.

### Silicon Cell Senior Investigator

The investigator's responsibilities will include development of the capability to model cell signaling processes including coupling of pathways and networks and to use modern computational methods to simulate such processes. This effort will organize data and guide new experimental measurements. Potential areas of research include bioinformatics, computational biology, complexity, coupled reaction mechanism modeling, flow and transport within cells, and structural biology all with a focus on simulation. The successful candidate is required to have a minimum of 10 years of experience beyond the Ph.D. and an outstanding record of research and publications. This position offers the opportunity to develop and lead a new field in biological modeling and simulation.

To apply, e-mail résumé indicating position of interest and 3 letters of reference to: [paul.simpkins@pnl.gov](mailto:paul.simpkins@pnl.gov) or send a scannable résumé to: **Pacific Northwest National Laboratory, P.O. Box 999, MSIN K1-51, Richland, WA 99352, Reference: MBI-PDS.** Visit our website <http://www.pnl.gov/>.

*PNNL is an Affirmative Action \ Equal Opportunity Employer and supports diversity in the workplace. Minorities, women, Vietnam-era veterans, and the disabled are encouraged to apply.*



## POSITIONS OPEN

### FACULTY POSITION DEPARTMENT OF MOLECULAR AND CELLULAR PHYSIOLOGY

The Department of Molecular and Cellular Physiology at the Louisiana State University Medical Center (LSUMC) in Shreveport invites applications for a tenure-track faculty appointment beginning spring 1999. Although preference will be given to candidates at the rank of **ASSISTANT PROFESSOR**, outstanding applicants at the **ASSOCIATE** or **FULL PROFESSOR** levels will also be considered. Applicants must have a Ph.D. and/or M.D. degree and appropriate postdoctoral research experience. We are seeking individuals whose research interests complement existing areas of excellence in the biology of the vascular wall and/or inflammation. The appointee will be expected to establish a vigorous independent research program supported by extramural funding and to participate in the teaching of graduate and medical students. For information about the Department, visit our website: [www.shreveportphysiology.com](http://www.shreveportphysiology.com). Applicants must submit a curriculum vitae, a brief summary of current and future research plans, and the names of three references to: Ms. Shari Korthuis, Search Committee Coordinator, Department of Molecular and Cellular Physiology, Louisiana State University Medical Center, 1501 Kings Highway, Shreveport, LA 71130. The closing date for applications is December 31, 1998, or until the position is filled. *LSUMC is an Affirmative Action Employer.*

### TENURE-TRACK FACULTY POSITIONS IN THE DEPARTMENT OF CELLULAR AND STRUCTURAL BIOLOGY

The University of Texas Health Science Center at San Antonio

The Department of Cellular and Structural Biology is undertaking a significant expansion into the area of the molecular and cellular basis of aging with an emphasis on cellular senescence and apoptosis. Toward this end, the department will be recruiting up to five tenure-track faculty members at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR**. The Department is particularly interested in qualified applicants undertaking research in the areas of aging, apoptosis, or related topics and the ability/willingness to teach in one of the Department's professional courses. Interested individuals should submit their curriculum vitae, a statement of research and teaching interests and experience, and three letters of recommendation to: Dr. Ellen Kraig, Chair, Cellular and Structural Biology Search Committee, CSBL, The University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284-7762. Applications received prior to December 31, 1998, will be considered.

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

**ASSISTANT PROFESSOR, SUGARCANE BREEDER** and other graminaceous crops. Full-time research, 12-month appointment with the Texas A&M University System Agricultural Experiment Station. Ph.D. in agronomy, plant physiology, or plant breeding with background in molecular biology. Duties include planning and execution of experiments; collection, processing, and interpretation of data; and publication of results. Designs and supervises planting and harvesting of field trials. Responsible for supervising from four to 10 workers. Works in cooperation with a team of Molecular Biologists on site and on campus in the molecular biology of graminaceous crops and integrates the activities of local scientists with projects on sugarcane and related crops. Closing date is October 15, 1998, or until a suitable candidate is found. For more information, or to apply, **Telephone: 956-968-5585**. *The Texas A&M University is an Affirmative Action/Equal Opportunity Employer.*

### UNIVERSITY OF FLORIDA

Seeks an **ASSISTANT/ASSOCIATE PROFESSOR** in the Department of Medicine, Division of Infectious Disease, M.D. or Ph.D. with minimum of four (4) years of postdoctoral experience. This is a tenure-track position with responsibilities that include DNA sequencing, robotics, and small-volume processing. Salary and benefits commensurate with experience. Recruiting deadline: October 8, 1998. Anticipated starting date: October 30, 1998. Please reply with curriculum vitae to: Dr. Reuben Ramphal, Professor, Box 100277 JHMHC, Gainesville, FL 32610. *An Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### TWO FACULTY POSITIONS DEPARTMENT OF BIOLOGICAL SCIENCES Division of Biochemistry and Molecular Biology Louisiana State University and A&M College

Applications are invited for two tenure-track faculty positions at the rank of **ASSISTANT PROFESSOR**. Individuals with outstanding research accomplishments will be considered for positions in biochemistry (ref. log #331), or microbiology (ref. log #330). Experience in the genetics, molecular biology, and/or physiology of the *Archaea* is desirable, but not necessary, in candidates for the microbiology position. Candidates should have a Ph.D. or equivalent degree and postdoctoral experience in biochemistry/microbiology disciplines, biological sciences, or related field. Active participation in teaching at the undergraduate and graduate levels will be expected of the successful candidate. Anticipated starting date is August 16, 1999.

Application deadline is October 23, 1998, or until a suitable candidate is selected. Applicants should submit a curriculum vitae and brief statement of research accomplishments and interests to either the:

**Biochemistry or Microbiology Search Committee**  
Department of Biological Sciences  
508 Life Sciences Building  
Louisiana State University and A&M College  
ref. logs #330 and 331  
Baton Rouge, LA 70803  
E-mail: [cthompson@unix1.sncc.lsu.edu](mailto:cthompson@unix1.sncc.lsu.edu)

*LSU is an Equal Opportunity Employer.*

### TENURE-TRACK FACULTY POSITION IN MICROBIOLOGY GEORGETOWN UNIVERSITY Department of Biology

Applications are invited for a tenure-track position to commence August 1999, likely at the **ASSISTANT PROFESSOR** level. We seek an energetic Investigator, well trained in the molecular biology of microorganisms, including viruses or other organisms of biomedical or environmental importance. The individual selected will be expected to develop and teach a one-semester course in microbiology (undergraduate level) and an advanced one-semester course in molecular biology (advanced undergraduate/graduate level) annually. Enthusiasm for instruction of undergraduate and graduate students is essential. Applicants should have a Ph.D. degree, at least two years of relevant postdoctoral experience, and be able to establish a grant-supported research program.

Your application should include: (1) your curriculum vitae, (2) names of three individuals who are familiar with your potential as a teacher and independent research scientist, (3) a short summary of research achievements and projected research, and (4) a statement describing your teaching philosophy. Please send your application by November 15, 1998, to: Microbiology Search Committee, Box 571229, Department of Biology, Georgetown University, Washington, DC 20057-1229.

*Georgetown University is an Affirmative Action/Equal Opportunity Employer.*

### ASSISTANT PROFESSOR MOLECULAR PATHOGENESIS

The Department of Microbiology and Immunology at the University of Oklahoma Health Sciences Center is seeking applications for a tenure-track position at the Assistant Professor level. Individuals in any research area of bacterial or fungal molecular pathogenesis are invited to submit their credentials. Major responsibilities will include establishing an extramurally funded independent research program and participation in the teaching of medical/dental and graduate students. The Department consists of 15 full-time faculty and maintains a multimillion-dollar annual research budget generated from more than 40 extramural grants. An outstanding training program is in place that supports 14 Postdoctoral Fellows and 36 graduate students. For an overview of the Department, visit our website: [www.microbiology.ouhsc.edu](http://www.microbiology.ouhsc.edu). Interested candidates should submit a letter describing their research interests and teaching goals, curriculum vitae, and the names of at least three references to: Dr. Madeleine Cunningham, Chair of the Search Committee, Department of Microbiology and Immunology, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190. Applications will be reviewed beginning November 16, 1998. *The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer. Applications from women and ethnic minorities are strongly encouraged.*

## POSITIONS OPEN

### FACULTY POSITION DEPARTMENT OF BIOCHEMISTRY, BIOPHYSICS, AND MOLECULAR BIOLOGY Iowa State University

The Department invites applications for a tenure-track **ASSISTANT PROFESSOR** position. We seek an outstanding scientist to develop an independent research program dealing with the structure and/or function of nucleic acids. Space in a new research facility and a competitive start-up package will be available. A commitment to graduate and undergraduate education is essential. Additional information about our department and programs is available at website: <http://molebio.iastate.edu/bbhtml/homepage.htm>.

Submit curriculum vitae, a description of research accomplishments and goals, and teaching interests, and arrange to have three letters of recommendation sent to:

**Faculty Search Committee**  
Jack Horowitz, Chair  
Department of Biochemistry, Biophysics,  
and Molecular Biology  
1210-A Molecular Biology Building  
Iowa State University  
Ames, IA 50011

Review of applications will begin November 10, 1998, and continue until the position is filled. *Iowa State University is an Affirmative Action/Equal Opportunity Employer. Applications from women and minority candidates are especially encouraged.*

### FACULTY POSITION AVAILABLE MOLECULAR MICROBIOLOGIST

The Department of Biological Sciences of Northern Kentucky University invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. A Ph.D. in a relevant field and teaching experience are required. Duties begin August 15, 1999. Teaching responsibilities include molecular biology, microbiology, and participation in an introductory biology course for majors. The successful candidate is expected to develop a research program involving undergraduates. Applications will consist of a letter of application, a brief statement of teaching and research goals, copies of recent publications, evidence of successful teaching, curriculum vitae, transcripts, and three letters of reference. All application materials are due by November 2, 1998, to: Dr. Dennis Lye, Department of Biological Sciences, Northern Kentucky University, Highland Heights, KY 41099. Northern Kentucky University is a metropolitan university of approximately 12,000 students located in the Greater Cincinnati, Ohio area. The University's primary mission is to provide instruction at the Associate and Bachelor's degree level. *Northern Kentucky University is an Affirmative Action/Equal Opportunity Employer and actively seeks the candidacy of minorities and women.*

### UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

The Department of Chemistry at the University of North Carolina at Chapel Hill invites applications for a tenure-track position in biological chemistry. The successful applicant must have a Ph.D., postdoctoral experience, a strong record of research, and the ability to teach biological chemistry effectively at the undergraduate and graduate levels. Preference will be given to individuals who can establish a strong research program in biological chemistry, interact enthusiastically with other Chemists, and whose appointment would be at the rank of **ASSISTANT PROFESSOR**. Review of the applications will begin October 21, 1998. Send a curriculum vitae, a brief research plan, a statement of teaching interests, and four letters of recommendation to: Biological Search Committee, Department of Chemistry, CB# 3290, University of North Carolina, Chapel Hill, NC 27599-3290. *The University of North Carolina is an Equal Opportunity/Affirmative Action Employer.*

University of Florida seeks a **RESEARCH ASSISTANT PROFESSOR** in the Department of Medicine, Division of Endocrinology. Ph.D. degree with five (5) years of experience. Background in vascular cell biology, diabetes, lipoprotein, and lipid metabolism. Grant experience required. Salary and benefits commensurate with experience. Recruiting deadline, December 31, 1998. Anticipated starting date July 1, 1999. Please reply to: Desmond Schatz, M.D., Associate Professor, Division of Endocrinology, Box 100277 JHMHC, Gainesville, FL 32610. *An Affirmative Action/Equal Opportunity Employer.*

The Endowment for  
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at  
**The University of Texas Southwestern Medical Center**

**UT Southwestern** is pleased to announce the second year of the Endowed Program for Scholars in Biomedical Research. The Program, which is fully funded from private endowment, will provide \$600,000 over four years to support the research activities of each new **Assistant Professor** (tenure track) appointed to the Program; five will be appointed annually. In addition, regular funding for salary, as well as research space, will be provided by the medical school department or research center offering the appointment. Positions in both **basic science** and **clinical departments** are available. The goal of the program is to assure a successful beginning of the research careers of an ever-growing cadre of outstanding young investigators at UT Southwestern.

For detailed information about currently available faculty positions, please access our web page: <http://www.swmed.edu>

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SOUTHWESTERN MEDICAL CENTER  
AT DALLAS

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## RESEARCH SCIENTIST

Amgen has developed a research environment that emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. This unique approach has helped us grow into a global biotechnology leader in just eighteen years.

We are looking for experienced molecular biologists at both the Research Associate and Research Scientist level to join a team that focuses on discovering and evaluating therapeutic target candidates using cutting-edge, high-throughput technologies and high-throughput gene expression. Successful candidates will be experienced with building and working toward team consensus through active collaboration and communication. Experience with recombinant antibody, microarray, high-throughput, gene expression or mouse knockout technologies is preferred. Candidates with mouse knockout experience should also have knowledge of both mouse conditioned gene expression and phenotypic analysis, *in vitro* and *in vivo*.

### Research Scientists

These positions require a Ph.D. in Biochemistry or a related discipline with 2-4 years' experience in a successful research environment, as well as experience in applied high-throughput biology. Excellent leadership and communication skills are essential and previous supervisory experience is preferred.

### Research Associates

Requires a BS/MS degree in Biology/Chemistry or a related field. Individuals should have 1-4 years of experience working in a productive research laboratory.

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**AMGEN**

## MAIZE GENOMICS

University of Missouri  
Clemson University  
University of Georgia

A collaborative Project on physical, genetic, and bioinformatics resources for maize is being inaugurated by the University of Missouri, Clemson University, and the University of Georgia. The long-term goals of the Project are: 1) to create a physical map of maize anchored to the genetic map by screening and assembling bacterial artificial chromosome (BAC) clones, and 2) to design and augment informatics and database capabilities to collect, analyze, and disseminate the data publicly. Because this is a substantial resource- and tool-development project with high potential impact, interactions and cooperation with diverse plant scientists are anticipated. We are seeking skilled, enthusiastic, and innovative participants for the research program.

### -- Postdoctoral Research Associates --

#### PHYSICAL AND GENETIC MAPPING

- To map RFLPs onto reference genetic populations and to anchor BACs to genetic map. Requires experience in probing filter arrays and analyzing mapping data.
- To develop and map SSR markers and to use them to anchor BACs. Requires expertise in sequencing; primer development; DNA sequence search routines; PCR; and analyzing high-density genetic mapping data, preferably in a high-throughput environment.
- To map expressed sequence tags (ESTs) to BACs. Requires experience in probing filter arrays and analyzing data, preferably in a high-throughput environment.
- To develop methods for making and mapping with whole-genome radiation hybrids. Requires experience with tissue culture (plant or animal), and collection and analysis of mapping data, preferably as applied to radiation hybrids in a high-throughput environment.
- To devise descriptors for expressions, development, and responses to describe plant traits systematically for the Maize Genome Database. Requires expertise in botanical / agricultural / biological concepts, preferably with background in database construction and manipulation.

--Applicants for the above positions at Missouri should mail CV and selected reprints, plus phone and email addresses of at least 3 references, to: Dr. E. H. Coe, Director, Maize Genomics Center, 210 Curtis Hall, University of Missouri, Columbia, MO 65211-7020. Email or incomplete applications cannot be considered.

- To play a central role in assembly of comparative physical maps of maize, sorghum, rice, and other grasses, by hybridization of mapped DNA probes to BAC grids. Familiarity with plant genetics and BAC manipulations important, familiarity with robotics and databases a plus.

--Applicants for the above position at Georgia should submit CV, selected reprints, plus phone and email addresses of at least 3 professional references to: Dr. Andrew H. Paterson, c/o Office of the Vice-President for Research, University of Georgia, Athens GA 30602, or by email to [htucker@arches.uga.edu](mailto:htucker@arches.uga.edu).

- To construct positional cloning and sequence ready physical maps. Coordinate a team to fingerprint a 200,000 clone BAC library and to assemble and annotate contigs using anchor data and IMAGE and FPC software. Extensive experience in contig assembly and UNIX programming required. Salary commensurate with experience.

--Applicants for the above position at Clemson should send CV, publications, and three letters of recommendation by email to Rod Wing, [rwing@clemson.edu](mailto:rwing@clemson.edu), or Ralph Dean, [rdean@clemson.edu](mailto:rdean@clemson.edu).

#### BIOINFORMATICS

- To develop software for managing data within the project, porting data from lab databases to the Maize Genome Database, and disseminating mapping data. Requires appropriate expertise and ability to interact effectively with collaborating scientists, preferably aided by biological background.
- To devise computational tools for analyzing data generated from RFLP mapping, BAC mapping, and radiation hybrid projects. Requires experience in data analysis, combined background in biology and computer sciences preferred.
- To coordinate and participate in database development for porting laboratory-generated data to other databases; for graphical map viewing; for a facile table-making tool; for automated progress reports and *www* pages defined by the research groups and outside reviewers as needed for the community. Requires experience with diverse database types and data delivery, biology a plus.

--Applicants for the above positions at Missouri should mail complete resume to: Dr. E. H. Coe, as above.

A Ph.D. scientist will be selected for the Project Manager, responsible at Missouri for facilitating communication and for administrative oversight of the Project (see Science, 9/18/98).

*The University of Missouri, Clemson University, and the University of Georgia are Equal Opportunity, Affirmative Action employers.*



## POSITIONS OPEN

### MOLECULAR CELL BIOLOGIST MCGILL UNIVERSITY DEPARTMENT OF BIOLOGY

The Department of Biology at McGill University invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in the area of molecular cell biology. Preference will be given to candidates whose research addresses fundamental problems in molecular cell biology and developmental biology using genetically well-characterized systems. Applicants should hold the Ph.D. degree in biological sciences and have demonstrated research proficiency through postdoctoral training.

The successful applicant will join a large and dynamic department with research strengths in cellular, molecular, and developmental biology, ecology, evolution, and neurobiology, with extensive affiliations with the Faculty of Medicine and local research institutes. Additional information on the Department is available at website: <http://www.mcgill.ca/Biology/biology1.htm>. Duties will involve the development of a vigorous research program and teaching at the undergraduate and graduate levels. The expected starting date is July 1, 1999.

Applications, including a curriculum vitae, a statement of research interests, and three letters of reference, should be sent to: **Dr. Donald L. Kramer, Chair, Department of Biology, McGill University, 1205 Docteur Penfield Avenue, Montreal, Quebec H3A 1B1 Canada. E-mail: don\_kramer@maclean.mcgill.ca.** The deadline for applications is November 15, 1998, but applications will continue to be considered until the position is filled.

*In accordance with Canadian immigration requirements, this advertisement is directed in the first instance to Canadian citizens and permanent residents. McGill University is committed to Equity in Employment.*

### MEDICAL COLLEGE OF WISCONSIN FACULTY POSITION

The Bone Marrow Transplant Program in the Department of Medicine of the Medical College of Wisconsin and the Blood Research Institute of Southeastern Wisconsin are jointly seeking a highly motivated individual with a background in immunology and molecular biology to expand research strengths in basic and tumor immunology. Close associations with the bone marrow transplantation program and with the Cancer Center and the Genetics Initiative Program are envisioned. Participation in ongoing programs in gene therapy and genetic alterations of T cells for immunotherapy is expected. A new transgenic rodent facility is available. Candidates should have an M.D. or Ph.D. degree and a well-developed research project. Faculty appointment will be commensurate with qualifications.

Candidates are invited to send their curriculum vitae with a letter describing their current research interests, expertise, and current funding before October 30, 1998, to: **Dr. William Burns, Professor of Medicine and Microbiology, 8701 Watertown Plank Road, MERC Building, Room 6033, Milwaukee, WI 53226.** The Medical College of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

**ASSISTANT/ASSOCIATE PROFESSOR.** Applications are invited for a tenure-track faculty position in the Research Division of the Department of Gynecology and Obstetrics at the Emory University School of Medicine. Scientists with an active research program in aging, immunology, genetics, and endocrinology with a strong interest in molecular aspects of hormone action will be considered. Applicants must have demonstrated research productivity and either must have a current NIH-funded research program or have the capability of establishing an externally funded research program. Please send application with description of research plans and the names of three references to: **Dr. Sampath Parthasarathy, Professor and Director of Research, Department of Gynecology and Obstetrics, Emory University School of Medicine, Atlanta, GA 30322.**

*Emory University is an Equal Opportunity Employer.*

**TENURE-TRACK ASSISTANT PROFESSOR** of biochemistry. Ph.D. required. Beginning August 27, 1998, to teach senior-level biochemistry and general chemistry in Bachelor of Science in Biochemistry Program. Training in nucleic acid techniques preferred. Submit résumé, transcript, and three letters of recommendation to: **Edgar N. Drake, Head, Department of Chemistry, Angelo State University, San Angelo, TX 76909.** Application is open but may be closed after November 1, 1998.

## POSITIONS OPEN

### UNIVERSITY OF CALIFORNIA, DAVIS DEPARTMENT OF CHEMISTRY

The Department invites applications for tenure-track faculty positions at the **ASSISTANT PROFESSOR** level, beginning on or after July 1, 1999. We seek outstanding candidates with backgrounds in organic, analytical, or inorganic chemistry, and plan to make two appointments. Candidates should have a strong commitment to research and teaching, a Ph.D. or equivalent degree, and expertise that complements present faculty (website: [www-chem.ucdavis.edu](http://www-chem.ucdavis.edu)) and campus initiatives involving chemical synthesis, chemical biology, or materials science. Applicants should provide a curriculum vitae (including a list of publications), a summary of research objectives, and the names, addresses, FAX and telephone numbers of three references, to be sent to: **Recruitment Committee, Chemistry Department, Room 108, University of California, One Shields Avenue, Davis, CA 95616-5295.** The positions are open until filled, but to assure consideration, applications should be received by October 16, 1998. *The University of California, Davis, is an Affirmative Action/Equal Opportunity Employer with a strong institutional commitment to developing a climate that supports Equal Opportunity and respect for differences.*

### THE UNIVERSITY OF NEW MEXICO HEALTH SCIENCES CENTER SCHOOL OF MEDICINE Molecular Genetics and Microbiology

The Department of Molecular Genetics and Microbiology, University of New Mexico, seeks an established Investigator with interests in human host-pathogen interactions to fill a full-time, tenure-track position at the **ASSOCIATE or FULL PROFESSOR** level. Preference will be given to an applicant who uses molecular techniques to analyze the mechanisms by which pathogenic virulence determinants allow for evasion of host defenses. The candidate must have (1) a Ph.D. or equivalent degree, (2) an established scholarly record in infectious diseases, (3) extensive publications in refereed journals, and (4) an active funded program of research under way. We are looking for an individual to complement existing research areas and to develop programmatic strengths. Current research areas in emerging infectious diseases include human papillomavirus, *Borrelia*, hantavirus, *Mycobacteria*, *Staphylococci*, hepatitis C virus, and HIV. Teaching in infectious diseases will be required. Applicants must submit a letter of application, curriculum vitae, brief statement of research interests, funding history, and three letters of reference to: **Dr. Hattie Gresham, Chair, Host/Pathogen Search Committee, Department of Molecular Genetics and Microbiology, 915 Camino de Salud, University of New Mexico, Albuquerque, NM 87131-5276, Attn: Dolores Tarin.** Salary will be commensurate with experience. The deadline for applications is December 1, 1998. For additional information, please e-mail: [hgresham@salud.unm.edu](mailto:hgresham@salud.unm.edu). *UNM is an Affirmative Action/Equal Opportunity Employer and Educator.*

Mariculture, tenure-track **ASSISTANT PROFESSOR** beginning August 1999. Successful candidate will teach undergraduate courses and graduate courses in zoology, direct graduate students, and maintain an active mariculture research program. Candidates using modern mariculture techniques in the area of shellfish genetics will receive preference. Ph.D. and postdoctoral experience required. Send curriculum vitae, a brief statement of research and teaching interests, all transcripts, names of three references, and selected reprints by 30 October 1998 to: **Dr. Donald Kapraun, Department of Biological Sciences, University of North Carolina at Wilmington, Wilmington, NC 28403-3297.** UNCW is situated on a 640-acre campus located in an historic port city on the Cape Fear River, within five miles of the Atlantic Ocean. The department has 35 full-time faculty, with 500 undergraduate majors in biology, marine biology, and clinical laboratory sciences and 75 students enrolled in Master's programs in biology and marine biology. It also participates in a joint Ph.D. program with NC State University. Please see our website: [uncwil.edu](http://uncwil.edu) for additional information or contact e-mail: [kapraund@uncwil.edu](mailto:kapraund@uncwil.edu). *UNC Wilmington is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*

## POSITIONS OPEN

### CHAIR DEPARTMENT OF MICROBIOLOGY AND MOLECULAR CELL SCIENCES SEARCH EXTENDED

The University of Memphis invites applications and nominations for the position of Chair of the Department of Microbiology and Molecular Cell Sciences. Minimum qualifications include the Ph.D. degree and academic qualifications commensurate with the academic rank of Professor. The candidate's area of research specialization may be in biochemistry, cell biology, developmental biology, microbiology, or molecular biology. We seek an individual with a distinguished record of performance in research, grantsmanship, and teaching, with demonstrated or potential abilities to lead and manage a newly formed, actively growing academic department. The candidate will be expected to participate in undergraduate and graduate education and therefore must be committed to excellence in teaching. The applicant should also possess interpersonal and leadership skills in mentoring faculty, directing students, and performing administrative duties. The department offers a B.S. degree, with concentrations in microbiology, molecular cell sciences, and biochemistry, and M.S. and Ph.D. degrees in biology with concentrations in microbiology or molecular cell sciences. See the department's website: <http://www.people.memphis.edu/~microcell/mcms.html>.

Review of applications will begin October 26, 1998, and continue until the position is filled. Applicants should submit their curriculum vitae, statements addressing administrative philosophy and research interests, and the names of at least three references to: **Search Committee Chair, Department of Microbiology and Molecular Cell Sciences, The University of Memphis, Campus Box 526041, Memphis, TN 38152-6041. E-mail: [bjtaller@memphis.edu](mailto:bjtaller@memphis.edu).**

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

### FACULTY POSITIONS THE AMERICAN UNIVERSITY IN CAIRO

Two openings to teach, in English, undergraduate courses in the areas of cell biology/molecular biology, ecology/environmental biology, and microbiology/genetics. In addition to their specialty, appointees will be expected to teach courses in general biology and scientific thinking. Normal teaching load is three courses per semester. The Ph.D. degree is required, and teaching experience is preferred. Two-year appointments (renewable) begin September 1999. Rank, salary according to scale based on qualifications and experience. For expatriates, housing, round-trip air travel for appointee and accompanying family to Egypt, plus schooling for up to two children included. *In view of AUC's protocol agreement with the Egyptian Government, which requires specific proportions of Egyptian, U.S., and third-country citizen faculty, at this time preference will be given to qualified applicants who are U.S. citizens.* Mail letter of application specifying Job # 1/2-BIOL with résumé and names and addresses of three references to: **Dr. Earl Sullivan, Acting Provost, The American University in Cairo, 420 Fifth Avenue, Floor 35C, New York, NY 10018-2729** before November 15, 1998. *AUC is an Equal Opportunity Employer.*

### FACULTY POSITION IN CANCER RESEARCH

The Eppley Institute for Research in Cancer of the University of Nebraska Medical Center (UNMC) is seeking candidates for a tenure-track position at the **ASSISTANT/ASSOCIATE/PROFESSOR** rank. Outstanding candidates working in all areas of molecular, structural, and cellular biology of cancer, and cancer genetics are encouraged to apply. The Eppley Institute has 25 faculty who are involved in multidisciplinary efforts focused on basic research in cancer. The Eppley is an academic unit of UNMC and an integral component in the NCI-designated UNMC/Eppley Cancer Center. In addition to directing an independent research program, the successful applicant is expected to interact with other faculty, and be involved in the training of graduate students and Postdoctoral Fellows through Eppley's NCI-supported Cancer Research Training Program.

Applicants should send their résumé, three reference letters, and a letter detailing their research goals to: **Dr. Barry Gold, Interim Director, Eppley Institute, University of Nebraska Medical Center, 600 South 42 Street, Omaha, NE 68198-6805.**

*The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer.*

## GRADUATE ESTUARINE RESEARCH FELLOWSHIPS

The National Estuarine Research Reserve System (NERRS) of the National Oceanic and Atmospheric Administration announces the availability of funding for Graduate Research Fellowships (GRF). The NERRS consist of 25 protected estuarine areas of the United States that are designated, developed, and managed for research and educational purposes. In 1999, 26 GRFs are expected to be competitively available to qualified graduate students. The NERRS GRF program is intended to fund high quality research focused on improving coastal zone management while providing students with hands-on training in conducting ecological monitoring. Research projects submitted in response to this announcement must address coastal management issues that relate to the "Scientific Areas of Support" described below. Fellowships will start no earlier than June 1, 1999.

### SCIENTIFIC AREAS OF SUPPORT

- Non-point source pollution
- Biodiversity and effects of invasive species
- Estuarine ecosystem restoration
- Sustaining estuarine ecosystems

### TERMS AND CONDITIONS

Fellowships may be funded for up to three years. The amount of the award is \$16,500/annum; this may be used for salary, to defray the costs of living expenses, tuition, fees and/or research supplies. The fellow's research must take place within at least one Reserve. Fellows must contact their host Reserve to discuss research and training opportunities. A list of Reserves is provided below. The fellow will be asked to work with the Research Coordinator or Reserve Manager to develop an ecological monitoring education program for up to 15 hours per week. Fellowships must be matched by the applicant by at least 30% of the **TOTAL project cost**. For \$16,500 in Federal funds, the required match is \$7,072. Availability of fellowships is contingent upon funding. Applications must be postmarked no later than November 1, 1998.

### ELIGIBILITY

Students admitted to or enrolled in a full-time Master's or Doctoral program at U.S. accredited colleges and universities are eligible to apply. Students should have completed a majority of their course work at the beginning of their fellowship, and have an approved thesis research program. Recipients are subject to all Federal laws and Federal and Department of Commerce policies, regulations, and procedures applicable to Federal financial assistance awards.

### NERR Research Contacts

**Sites with openings:** Alabama: Weeks Bay NERR, 334-928-9792. Alaska: Kachemak Bay, 907-267-2331. California: Elkhorn Slough NERR, 408-728-2822 • Tijuana River NERR, 619-575-3613. Delaware: Delaware NERR, 302-739-3493. Florida: Apalachicola Bay NERR, 850-670-4783 • Guana Tolomato Matanzas NERR, 850-488-3456. Maine: Wells NERR, 207-646-1555. Maryland: Chesapeake Bay NERR in Maryland, 410-228-9250 x615 Massachusetts: Waquoit Bay NERR, 508-457-0495. Mississippi: Grand Bay NERR, 228-374-5000. New Hampshire: Great Bay NERR, 603-868-1095. New Jersey: Jacques Cousteau NERR, 908-932-9489 x512. New York: Hudson River NERR, 914-758-7013. Ohio: Old Woman Creek NERR, 419-433-4601. Puerto Rico: Jobos Bay NERR, 809-853-4617. South Carolina: North Inlet-Winyah Bay NERR, 803-546-3623. Virginia: Chesapeake Bay NERR in Virginia, 804-642-7135.

**Sites not expected to have openings:** Florida: Rookery Bay NERR. Georgia: Sapelo Island NERR. North Carolina: North Carolina NERR. Oregon: South Slough NERR. Rhode Island: Narragansett Bay NERR. South Carolina: Ashepoo-Combahee-Edisto Basin NERR. Washington: Padilla Bay NERR.

### APPLICATION PACKAGE & ADDITIONAL INFORMATION



Dr. Dwight D. Trueblood  
Science Coordinator  
NOAA/Sanctuaries & Reserves Division  
1305 East-West Highway, 11<sup>th</sup> Floor  
Silver Spring, MD 20910  
[www.nos.noaa.gov/ocrm/nerr/nerr\\_rfp.htm](http://www.nos.noaa.gov/ocrm/nerr/nerr_rfp.htm)

## UNIVERSITY OF CALIFORNIA, LOS ANGELES

### FACULTY POSITIONS IN MOLECULAR, CELL, AND DEVELOPMENTAL BIOLOGY

The Department of Molecular, Cell, and Developmental Biology of UCLA's College of Letters and Science is engaged in a search for candidates to fill several positions at the levels of Assistant or Associate Professor in the broadly defined areas of Cell and Molecular Biology. Candidates in the areas of molecular parasitology or genomics are especially encouraged. Candidates are expected to develop a strong research program and to actively engage in the College's educational activities. We offer competitive start-up funds and salaries, and an outstanding collegial atmosphere conducive to independent, as well as collaborative, research.

Send curriculum vitae, a description of your research experience and future plans and three references to: **MCDB Faculty Search, Department of MCD Biology, UCLA, 2203 Life Science Building, Los Angeles, CA 90095-1606.** All applications and recommendation letters should be received by November 16, 1998.

Visit us at <http://www.lifesci.ucla.edu/mcdbio>. Also see <http://www.uclaaccess.ucla.edu>.

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## PARKE-DAVIS

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## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR BIOCHEMISTRY AND BIOPHYSICS SCHOOL OF MEDICINE

University of North Carolina at Chapel Hill

The Department of Biochemistry and Biophysics invites applications for a tenure-track faculty position. This search is aimed primarily at the Assistant Professor level, but more senior Investigators who are emerging leaders in their fields will be considered. Candidates should possess a Ph.D. or M.D. degree, have two or more years of postdoctoral experience, and have demonstrated excellence in their research. The research area should complement or expand existing Department strengths, which include signal transduction, cell cycle regulation and oncogenesis, DNA repair and photobiology, development and activities of the nervous system, membrane processes, mechanistic enzymology, and protein structure/function. Our Department comprises a large, well-funded (over \$7 million in direct costs) faculty whose expertise spans the disciplines of molecular, cellular, and structural biology. The position includes an excellent start-up package, quality research space, and access to numerous, state-of-the-art core facilities. We have a highly successful departmental graduate program, and a strong, interdisciplinary biophysics predoctoral training program is centered in the Department. Faculty also have access to graduate students through numerous interdepartmental programs including the genetics or neurobiology curricula. Many of our faculty are also members of the UNC Lineberger Comprehensive Cancer Center and the Program in Molecular Biology and Biotechnology. In addition to being known as a center of research excellence, UNC-CH is also noted for its collegiality. Moreover, Chapel Hill and the surrounding Triangle area are nationally recognized as among the top ten places to live in the country.

Interested candidates should send a curriculum vitae, a letter describing their research interests and plans, and the names, addresses, and telephone numbers of three references to: **Dr. David Lee, Chair, Department of Biochemistry and Biophysics, CB# 7260, University of North Carolina, Chapel Hill, NC 27599-7260.** Review of applications will begin December 1, 1998, and continue until an applicant is selected and recruited.

*Our Department is committed to increasing representation of women and members of minority groups on our faculty. The search committee particularly encourages applications from such candidates. UNC-CH is an Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITION ASSISTANT PROFESSOR OF PHARMACEUTICS

School of Pharmacy  
State University of New York at Buffalo

Applicants with research interests in one or more of the following areas are sought: pharmacokinetic/pharmacodynamic modeling, principles of drug disposition, or biopharmaceutical/dispositional properties of biotechnology products. A Ph.D. in pharmaceutical sciences or a related field and postdoctoral experience are desirable. The successful candidate will be expected to develop an independent and extramurally funded research program and participate in teaching courses.

Applicants should submit a curriculum vitae, names and addresses of three references, and a statement of research interests to: **William J. Jusko, Ph.D., Chair, Search Committee, Department of Pharmaceutics, 565 Hochstetter Hall, State University of New York at Buffalo, Buffalo, NY 14260. Telephone: 716-645-2855; FAX: 716-645-3693; e-mail: wjjusko@acsu.buffalo.edu.** An Equal Opportunity and Affirmative Action Employer.

Chemical and biochemical engineering. The University of Iowa invites applicants for a **TENURE-TRACK** faculty position. The position is at open rank with a preference for a **SENIOR-LEVEL** person of national distinction. Applicants with a Ph.D. and research interests that complement our existing strengths in biotechnology (medical, environmental, and industrial), reaction engineering, membrane science, polymeric materials, and air quality engineering are desired. Excellence in research and teaching essential. Send résumé with research and teaching plans and list of references to: **David G. Rethwisch, Department of Chemical and Biochemical Engineering, The University of Iowa, Iowa City, IA 52242. E-mail: davidrethwisch@uiowa.edu; website: http://www.engineering.uiowa.edu/~chemeng.** Women and minority candidates are encouraged to apply.

## POSITIONS OPEN

### JOHN M. STEWART PROFESSOR OF PEPTIDE RESEARCH Department of Biochemistry and Molecular Genetics University of Colorado Health Sciences Center

Applications are invited to fill this newly endowed Professorship. Applicants should have an active, world-renowned program in the chemistry or biochemistry of peptides. Candidates will be expected to continue a vigorous, independent research program. Teaching interests and expertise should be suitable for a Biochemistry Department. Those potentially interested in this position need send only a letter of interest and a curriculum vitae to:

**Dr. Thomas Blumenthal, Chair  
Department of Biochemistry and  
Molecular Genetics  
Box B-121  
University of Colorado  
Health Sciences Center  
4200 East Ninth Avenue  
Denver, CO 80262**

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

The U.S. Coast Guard Academy invites applications for two **ASSISTANT PROFESSOR**, tenure-track positions commencing in fall 1999. Both require a strong commitment to excellence in undergraduate teaching and a knowledge of open-ocean and coastal marine systems. Some undergraduate teaching and postdoctoral experience are preferred.

**Fisheries:** Qualifications include a Ph.D. in marine fisheries or closely related field; a knowledge of commercial fisheries, fisheries management, and oceanography; and additional expertise in one of the following: environmental science, marine geology, or physical oceanography. Teaching responsibilities include courses in marine fisheries, general oceanography, and one other course based on the candidate's expertise.

**Biological oceanography:** Qualifications include a Ph.D. in marine biology or biological oceanography and expertise in marine plankton and invertebrates. Teaching responsibilities include courses in marine biology and biological oceanography.

Submit curriculum vitae, statement of teaching interests and philosophy, and contact information for three references to: **U.S. Coast Guard Academy, P.O. Box A-12A (for the fisheries position) and P.O. Box A-12B (for the biological oceanography position), 15 Mohegan Avenue, New London, CT 06320.** Applications must be postmarked by 30 November 1998. Applications may also be sent by **FAX: 860-444-8627.** Salary commensurate with experience. The Academy is a four-year military college whose graduates receive a B.S. degree and a commission as a Coast Guard officer. Some citizenship restrictions may apply. *Women and minorities are encouraged to apply. The U.S. Coast Guard is an Equal Opportunity, Affirmative Action Employer.*

### ASSISTANT PROFESSOR NEUROPHYSIOLOGY

The Department of Biological Sciences at Louisiana State University (LSU) invites applications for a tenure-track position at the Assistant Professor level. The department is seeking an individual who uses contemporary cellular approaches to study nervous/sensory system function. Candidates must possess a Ph.D. degree or equivalent and have postdoctoral experience. The successful candidate will be expected to maintain a strong extramurally supported research program and supervise the research of graduate students. Teaching responsibility will be one vertebrate physiology course/semester or equivalent. Review of applications will begin on October 26, 1998, and continue until a suitable candidate is identified. Send curriculum vitae, statement of research plans, teaching interests, and three letters of recommendation to: **Neurophysiology Search Committee, Ref. Log #353, Department of Biological Sciences, 508 Life Science Building, Louisiana State University, Baton Rouge, LA 70803.** E-mail applications will not be accepted. Visit our website: <http://www.chem.lsu.edu/~biosci>.

*LSU is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### EVOLUTIONARY DEVELOPMENTAL BIOLOGIST WESLEYAN UNIVERSITY

A tenure-track faculty position in evolutionary developmental biology is available at the **ASSISTANT PROFESSOR** level in the Biology Department at Wesleyan University. We are especially interested in candidates whose research addresses issues in development that are of fundamental importance for evolutionary biology, including, but not limited to, the developmental mechanisms underlying the origin and diversification of body plans, recruitment of existing regulatory pathways into novel developmental systems, and evaluation of homologies across major taxa. The appointee is expected to complement existing departmental strengths in evolution, development, genetics, and/or neurobiology.

Candidates should have a Ph.D. and postdoctoral experience. The successful applicant will be expected to set up an independent research program and to participate in the departmental Ph.D. program. Teaching will be at the undergraduate and graduate levels in the areas of development and evolution, including a course such as macroevolution or phylogenetic diversity. Wesleyan's Biology Department faculty is research-oriented and successfully attracts outside funding, and the Department is housed in well-equipped laboratories. Please send us your curriculum vitae and a concise statement of future research plans, and have three letters of recommendation sent to: **Evolutionary Developmental Biology Search Committee, Department of Biology, Wesleyan University, Middletown, CT 06459-0170.** Review of applications will begin November 10, 1998. Website: <http://www.wesleyan.edu/bio/>. *Wesleyan is proud of its record of commitment to diversity in the student body, faculty, and staff, and encourages applications from women and persons of color. Wesleyan University is an Equal Opportunity/Affirmative Action Employer.*

### TENURE-TRACK ASSISTANT/ ASSOCIATE PROFESSOR

The University of Illinois College of Medicine at Rockford seeks one or two tenure-track/tenured faculty to its diversified Department of Biomedical Sciences. Rank will depend on qualification and experience. Although the emphasis is on research, one of the candidates should hold a Ph.D. in pharmacology along with related teaching experience. The successful applicants will be expected to develop an independent, extramurally funded research program and participate in the teaching of a team-taught course in medical pharmacology. Existing research programs enjoy positive levels of funding. Opportunity for collaborative research with clinicians and local hospital affiliates makes these positions particularly attractive. In addition, Rockford is a pleasant four-season community with affordable housing, opportunities for spousal employment, and close proximity to large urban centers and rural environs. Submit curriculum vitae, a short statement of research interests, and the names and addresses of three references to: **Dr. Fu-Li Yu, Ph.D., Department of Biomedical Sciences, University of Illinois College of Medicine at Rockford, 1601 Parkview Avenue, Rockford, IL 61107-1897.** Applications will be reviewed starting October 1998. *The University of Illinois is an Equal Opportunity/Affirmative Action Employer.*

The Toxicology Program at the University of New Mexico invites applications for a 12-month tenure-track faculty position in medicinal chemistry/chemical toxicology at the **ASSISTANT PROFESSOR** rank. The successful candidate will be expected to establish an extramurally funded research program and provide instruction to professional pharmacy students (Pharm.D.) and graduate students (M.S., Ph.D.) in the Basic Medical Sciences/Toxicology Graduate Program. Applications from interested candidates working in all areas of medicinal chemistry/toxicology will receive consideration. Minimum requirements are a Ph.D. in medicinal chemistry/toxicology or closely related discipline; postdoctoral experience; a record of research productivity; and evidence of instructional ability. Applications will be accepted until November 1, 1998, or until the position is filled. To receive complete information and/or apply, interested persons should forward a curriculum vitae, letter of intent describing career goals, outline of future research plans, and the names and addresses of at least three references to: **Dr. Craig Marcus, Chair, Faculty Search Committee, College of Pharmacy, University of New Mexico, Albuquerque, NM 87131. E-mail: cbmarcus@unm.edu.**

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

# RESEARCH ASSOCIATE

Vysis is a leading Genomic Disease Management company that develops, commercializes and markets clinical products that provide information critical to the evaluation and management of cancer, prenatal disorders and other genetic diseases. We're seeking a self-motivated individual with good problem solving and communication skills to join a team of scientists in our Research and Development division.

This position requires a BS or MS (preferred) in biology, genetics or related field, with a minimum of 5 years post MS or 8 years post BS experience. Must be experienced in nucleic acid hybridization, molecular biology, human genetics and in situ hybridization. Must be able to plan, conduct and evaluate experiments with minimal supervision. Will work as a team member developing DNA tests for human genetic diseases and cancer, performing DNA clone isolation and characterization, and optimizing DNA probe performance. Must have ability to work on multiple projects and maintain complete and accurate notebooks and other records.

We provide an excellent salary and benefits package. Please submit resume including salary history to: Human Resources, **VYSIS, INC.**, 3100 Woodcreek Drive, Downers Grove, IL 60515. Fax: (630) 271-7008. [www.vysis.com](http://www.vysis.com)  
EOE M/F/H/V

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## DIRECTOR JOHN B. PIERCE LABORATORY, INC. Center for Research in Health and the Environment

The John B. Pierce Laboratory, Inc. invites applications and nominations for the position of Director, to start on or about July 1, 1999. An endowed, independent research institution affiliated with Yale University, the Laboratory operates under a charter to study effects of the physical and chemical environment on human health and well-being (see <http://ibpierce.org>). Current research incorporates approaches that range from the cellular to the systems level to study such topics as cardiovascular controls and regulations, respiratory responses to air pollutants, and sensory processes.

Applications are sought from individuals holding an M.D. and/or Ph.D. with outstanding accomplishments in research areas related to the Laboratory's charter and with administrative experience. The Director is expected to provide leadership in defining new areas of research opportunity and in supporting and integrating current research programs. The applicant should have the qualifications necessary for appointment as Professor in an appropriate department of the Yale University School of Medicine.

Applications, including a detailed résumé and names and addresses of three references, should be sent to:

**Dr. Lawrence E. Marks**  
Chair - Search Committee  
The John B. Pierce Laboratory, Inc.  
290 Congress Avenue, New Haven, CT 06519

The closing date for applications is December 1, 1998. Applications received after this date may be considered until the position is filled. *The John B. Pierce Laboratory, Inc. is an affirmative action, equal opportunity employer, and welcomes applications from qualified women and minority candidates.*

For further information regarding the Director position, please contact: **Lawrence E. Marks, Ph.D.**  
E-mail: [marks@ibpierce.org](mailto:marks@ibpierce.org)



NATIONAL CANCER INSTITUTE  
OFFICE OF THE DEPUTY DIRECTOR  
FOR EXTRAMURAL SCIENCE  
OFFICE OF INFORMATICS  
ROCKVILLE, MARYLAND

Opening Date: September 21, 1998

Closing Date: October 30, 1998

Announcement Number: CA-98-1979

**THE OFFICE OF INFORMATICS IS SEEKING A DATA BASE ADMINISTRATOR.** This staff will serve as the lead administrative and technical coordinator for the development and maintenance of databases created and managed by the Informatics Office; establish logical data standards, including standards for enterprise logical data models, decision support data models, multidimensional data design and data management; develop system strategy and architecture as it relates to data administration; and develop and oversee security architecture.

**SALARY RANGE AND BENEFITS:** This is a Civil Service Position with annual salary compensation between \$55,969 and \$85,978 including locality pay. Benefits include health and life insurance, retirement, paid holidays, vacation and sick leave. In addition, a recruitment bonus may be approved. The individual selected may expect to be involved in state-of-art database planning and implementation techniques, with significant skill-enhancing benefits.

**BASIC QUALIFICATIONS:** U.S. Citizenship is required. Applicants must meet the basic experience and educational qualifications requirements for U.S. Government Computer Specialists. In order for the qualifications to be validated and considered, it is mandatory that you submit the following with your application: A) An undergraduate and graduate transcript or course list which includes grades and semester hours received per course for all courses; B) A current curriculum vitae; and, C) A description of your proficiency in the following Knowledge, Skills and Abilities (KSAs):

1) Knowledge of a wide range of computer techniques, methods and procedures; advanced personal computer systems, off-the-shelf software; and, telecommunications capabilities. 2) Knowledge of commercially available data management systems, including ORACLE; database development, design and test techniques (including Designer 2000); and, quality assurance for data management and software development. 3) Skill in communicating with non-IT personnel regarding user needs.

**APPLICATION PROCEDURES:** The NCI recruitment bulletin for this position contains complete application procedures and lists all mandatory information which you must submit in your application. To obtain the recruiting bulletin, call 1-800-728-JOBS (for local calls, 301-594-2953). When prompted, enter the "Fax ID Number" 1878 for CA-98-1979. You will be prompted for your fax machine number. If you have any questions on qualification requirements or application procedures, or if you wish to obtain a position description or other information, please call (301) 402-2812. Please submit your resume, SF-171, Application for Federal Employment or OF-612, Optional Application Form by the closing date to:

**NATIONAL INSTITUTES OF HEALTH  
NATIONAL CANCER INSTITUTE  
HUMAN RESOURCE AND CONSULTING BRANCH  
6120 Executive Boulevard, MSC 7211  
Executive Plaza South, Suite 550  
Rockville, Maryland 20852-7211**

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## POSITIONS OPEN

### AQUATIC ECOSYSTEM SCIENTIST MCGILL UNIVERSITY DEPARTMENT OF BIOLOGY

The Department of Biology at McGill University invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in the area of aquatic science. Preference will be given to candidates whose research examines aspects of energy flow or material cycling through ecosystems and who complement a research group with strengths in limnology, ecotoxicology, marine science, fish ecology, and conservation. Duties will involve the development of a vigorous research program and teaching at the undergraduate and graduate levels. The successful applicant will teach in their area of expertise and participate in the development of the newly established McGill School of Environment. The expected starting date is July 1, 1999.

Applications, including a curriculum vitae, a statement of research interests, and three letters of reference, should be sent to: **Dr. Donald L. Kramer, Chair, Department of Biology, McGill University, 1205 Docteur Penfield Avenue, Montreal, Quebec H3A 1B1 Canada.** E-mail: [don\\_kramer@macan.mcgill.ca](mailto:don_kramer@macan.mcgill.ca). The deadline for applications is November 15, 1998.

For additional information on the Department of Biology and the McGill School of Environment, see website: <http://www.mcgill.ca/Biology/biology1.htm>, and website: <http://www.mcgill.ca/mse>.

*In accordance with Canadian immigration requirements, this advertisement is directed in the first instance to Canadian citizens and permanent residents. McGill University is committed to Equity in Employment.*

### PHARMACOKINETICS UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER School of Pharmacy

A tenure-track position at the level of **ASSISTANT or ASSOCIATE PROFESSOR** is available in the Department of Pharmaceutical Sciences for a Pharmacokineticist. The successful applicant should have either a Ph.D. or a Pharm.D., two or more years of postdoctoral training, and a strong background of research in pharmacokinetics/pharmacodynamics. The applicant should be dedicated to an academic career involving the development of an extramurally funded research program, teaching in both Pharm.D. and Ph.D. programs, and a commitment to scholarly service. The department is an integral component of an NCI-funded Comprehensive Cancer Center and the applicant will be expected to participate in pharmacokinetic studies of novel anticancer agents.

Faculty rank and salary will be dependent upon qualifications and experience. Candidate screening will begin immediately and continue until the position is filled. Applicants should send a letter of interest, a curriculum vitae, and the names of three references with regular and e-mail addresses and telephone and FAX numbers to: **Dr. David Ross, Pharmacokinetics Search, Department of Pharmaceutical Sciences, School of Pharmacy, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Campus Box C-238, Denver, CO 80262.** FAX: 303-315-0274; Telephone: 303-315-6077; e-mail: [david.ross@uchsc.edu](mailto:david.ross@uchsc.edu).

*The University of Colorado Health Sciences Center is dedicated to Affirmative Action and Equal Opportunity.*

### PLANT DEVELOPMENTAL BIOLOGY UNIVERSITY OF WASHINGTON

**ASSISTANT PROFESSOR.** Department of Botany, University of Washington. A tenure-track appointment is intended in the area of plant developmental biology. Candidates will be expected to use a molecular genetic approach to address fundamental questions in plant development. Teaching will include plant developmental biology and related areas. Candidates must have a Ph.D., a minimum of two years of postdoctoral experience, record of published research, and will be expected to develop a rigorous, externally funded research program. Applicants should submit a curriculum vitae, statement of teaching and research interests, up to three publications, and arrange for three letters of recommendation to be sent to: **The Chair, Search Committee, Department of Botany, Box 355325, University of Washington, Seattle, WA 98195-5325.** Website: [www.biology.washington.edu/Botany/home.html](http://www.biology.washington.edu/Botany/home.html). Priority will be given to applications received by November 30, 1998. *The University of Washington is building a culturally diverse faculty and strongly encourages applications from women and minority candidates. The University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY University of Illinois College of Medicine

Applications and nominations are invited for a tenured/tenure-track faculty position at the level of Assistant or Associate Professor in the area of gene regulation and cell differentiation. All areas of biochemistry and molecular biology will be considered; however, we are especially interested in problems related to gene expression in the context of regulation, development, and medicine. Applicants should have a Ph.D., postdoctoral experience, a strong record of research accomplishments, and demonstrable potential for the development of an independent research program. The Department is one of six basic science departments in the largest College of Medicine in the United States and consists of 15 full-time faculty and 13 joint appointees. In recent years, we have recruited several senior and junior faculty and are most interested in fostering independent research in an environment of interactive collegiality. Applications should include a curriculum vitae, a summary of current and future research plans, and the names, addresses, telephone/FAX numbers of at least three individuals for references. All inquiries will be held in confidence. Review of applications will begin after November 1, 1998. Send applications or nominations to: **Chair, Molecular Biology Search Committee, Department of Biochemistry (M/C 536), University of Illinois College of Medicine, 1819 West Polk Street, Chicago, IL 60612.** *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

### ASSISTANT PROFESSOR OF BIOCHEMISTRY PLANT MOLECULAR BIOLOGIST University of California, Riverside

The Department of Biochemistry invites applications for a tenure-track position of Assistant Professor of biochemistry. Qualifications for the position include a strong potential for imaginative research in plant molecular biology. Individuals whose scholarship is broadly in the areas of the biochemistry and molecular genetics of signal transduction, gene expression, cell differentiation, or environmental stress response are strongly encouraged to apply. A strong commitment to teaching excellence at both undergraduate and graduate (M.S. and Ph.D.) instruction is required. The position also includes appointment in the Agricultural Experiment Station. Applicants must hold a Ph.D. or equivalent degree and have postdoctoral experience. Salary will be commensurate with education and experience. Submit a curriculum vitae, bibliography (including three reprints), and a brief (limit of 500 words) description of proposed research interests. Request that three to five original letters of reference be sent separately to: **Chair of Search Committee, Department of Biochemistry, University of California, Riverside, CA 92521-0129.** Applications may also be sent by FAX: 909-787-4774 followed by a hard copy sent by mail. Evaluation of applications will begin October 30, 1998, but the position will be open until filled. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT OR ASSOCIATE PROFESSOR OF PHARMACOLOGY

A tenure-track position as Assistant or Associate Professor in the Department of Pharmacology and Toxicology is available. Candidates must hold a doctoral degree and are expected to establish or have an independent, extramurally funded research program utilizing creative approaches. We seek applicants with outstanding research accomplishments and plans, and a willingness to collaborate with existing faculty. We are particularly interested in those with expertise in neuroscience, but excellent candidates in other areas will also be considered. Excellent core resource facilities exist including those for DNA sequencing, analytical chemistry, transgenic mice, and aged primates. Faculty participate in the education of medical and graduate students. Competitive salary, laboratory space, and start-up funds are available. See our website: <http://www.mcg.edu/SOM/PhmTox/Index.html>. Please send a curriculum vitae, a letter describing current and future research plans, and the names of three references to: **R. William Caldwell, Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA 30912-2300.** Application deadline is November 15, 1998. *The Medical College of Georgia is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### PRICE GILBERT, JR. CHAIR IN TISSUE ENGINEERING Georgia Institute of Technology

The Parker H. Petit Institute for Bioengineering and Bioscience at Georgia Institute of Technology invites applications and nominations for an appointment to the Price Gilbert, Jr. Chair in tissue engineering. The person selected for this position will be expected to provide leadership in one or more of the core technologies of the field of tissue engineering. Examples are cell technology, including genetic engineering and stem cell biology; construct technology, including biomaterials, bioreactor technology for the growth of tissue-engineered constructs, and construct preservation; and the technologies required for the integration of tissue-engineered products into living systems. The appointment of the person selected will be in one of the academic units participating in the Petit Institute, depending on the background of the individual. This includes the possibility of an appointment in the newly established joint Georgia Tech/Emory biomedical engineering department.

Interested candidates should provide a complete curriculum vitae, a description of their research interests, and the names and addresses of at least four references. Candidates should have a Ph.D. in bioengineering, chemical engineering, electrical engineering, materials science, mechanical engineering, or a related field, and/or an M.D. degree. Applications should be sent to: **Robert M. Norem, Director, Parker H. Petit Institute for Bioengineering and Bioscience, Georgia Institute of Technology, Atlanta, GA 30332-0363.** *Georgia Tech is an Equal Opportunity Employer.*

### ASSISTANT PROFESSOR ENVIRONMENTAL MICROBIOLOGY

The Environmental Sciences Program at the University of Massachusetts at Amherst invites applications to a tenure-track Assistant Professor position in environmental microbiology. We seek applicants with a Ph.D. in microbiology or a closely related field, preferably with postdoctoral experience. The successful candidate will have documented expertise in microbial ecology/physiology with experience applying modern techniques and molecular approaches to study microbial communities in the environment. The candidate should be prepared to teach undergraduate and graduate courses in environmental microbiology in the Environmental Sciences Program and the Department of Microbiology, or any department appropriate to the field of environmental microbiology. Applicants should be prepared to establish an active, nationally recognized, externally funded research program, and be willing to collaborate with other scientists in their field. Review of applicants will begin immediately and continue until the deadline for submission of applications, March 15, 1999. Applicants should submit a letter of interest, a résumé, graduate transcripts, a statement describing their teaching and research plans, reprints of peer-reviewed research publications, and have three letters of recommendation sent to: **Dr. Guy R. Lanza, Director, Environmental Sciences Program, 312 Stockbridge Hall, University of Massachusetts, Amherst, MA 01003-7240.**

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

### ASSISTANT PROFESSOR DEPARTMENT OF ZOOLOGY UNIVERSITY OF WASHINGTON

The Department of Zoology at the University of Washington seeks applicants for a tenure-track Assistant Professorship with research emphasis in any of the following areas involving marine animals: (1) molecular developmental bases of evolution, (2) cellular and organismic physiology, and (3) neurobiology. Successful candidates will be expected to contribute to undergraduate and graduate teaching, and to establish an externally funded research program. Candidates should have a Ph.D. and at least one year of postdoctoral experience by start of appointment. Send curriculum vitae, a description of research and teaching interests, and three letters of recommendation to: **Chair, Faculty Search Committee, Department of Zoology, University of Washington, Seattle, WA 98195-1800.** Priority will be given to applications received before December 7, 1998. *The University of Washington is building a culturally diverse faculty and strongly encourages applications from women and minority candidates. The University of Washington is an Equal Opportunity/Affirmative Action Employer.*

## NIH Undergraduate Scholarship Program (UGSP)

If you would like to be trained and mentored at the cutting edge of biomedical research while receiving scholarship support, the UGSP may be for you!

The UGSP is sponsored by the National Institutes of Health (NIH), the Federal Government's lead biomedical research and research training agency, offering scholarships to qualified individuals to pursue undergraduate life sciences degrees.

Scholarships up to \$20,000 per year support tuition, educational, and qualified living expenses (room, board, transportation) while students pursue an undergraduate degree.

During each year of the award, scholars train for 10 weeks as paid employees in NIH research laboratories. They are assigned to mentors, participate in research seminars and developmental programs. Housing and transportation is provided. After graduation, 1 year of full-time research employment at NIH is required for each year of scholarship support.

### You Should Apply If You:

- Can demonstrate a deep interest in pursuing a career in biomedical research;
- Can demonstrate being from a disadvantaged background;
- Have a GPA of 3.5 or better or are in the top 5 percent of your class;
- Are a U.S. citizen, national, or permanent resident;
- Are enrolled or accepted for enrollment as a full-time student at a qualified accredited institution.

**This is a special opportunity for special students.**



**For more information, contact:**

UGSP  
<http://ugsp.info.nih.gov>  
e-mail: [ugsp@nih.gov](mailto:ugsp@nih.gov)  
Phone: 800-528-7689  
TTY: 1-888-352-3001

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Enhancing the quality of life. This is the commitment that Merck & Co., Inc. stands on and it's what has distinguished us as the world's premier developer, manufacturer and marketer of innovative health products. Merck & Co., Inc. was recently ranked by *Fortune* in the top 10 of "The 100 Best Companies to Work for in America". Come and work with us. Experience a collective effort admired by many, duplicated by none.

**Merck Research Laboratories**, a world leader in biological and pharmaceutical research, has an immediate opening in the **Department of Pharmacology** in our **West Point, PA** facility.

### RENAL PHARMACOLOGIST/ PHYSIOLOGIST

As an active member of drug discovery programs for cardiovascular and renal diseases, you will focus on identifying novel molecular targets and application of effective approaches enabling new directions and problem solving in drug discovery programs. Working collaboratively with non-Ph.D., Ph.D. scientists and scientists from other Merck Research Laboratories (MRL) departments, you will actively contribute to drug discovery research at MRL as well as develop/maintain partnerships with outside experts in renal/cardiovascular research. Responsibilities include directing research programs, publishing research articles in peer-reviewed journals and being at the forefront of new discoveries and techniques in this and related fields.

**Your distinguished and proven skill set should encompass:**

- A Ph.D., M.D. or M.D./Ph.D. degree in Pharmacology, Physiology or equivalent, along with a minimum of 2 years post-doctoral experience in a relevant life science field
- Sound research leadership, effective communication, interpersonal skills, a team-oriented focus and the ability to motivate and synergize with others
- Scientific achievement in one or more areas of renal/cardiovascular research as demonstrated by first author publications in peer-reviewed, recognized journals
- Familiarity of molecular biology and genomics with an ability to integrate molecular and whole animal studies
- A strong research background in renal pharmacology and physiology using in vivo animal models, particularly in renal disease in hypertension, diabetes, dyslipidemia and/or obesity
- Areas of research relating to furthering the scientific understanding of pathophysiology and treatment of renal and/or cardiovascular diseases
- Previous experience in drug discovery and supervisory experience in academia or industry is preferred

We offer what you'd expect from a global leader: an excellent salary and benefits program accompany this position at our modern research facility located **25 miles northwest of Philadelphia**. For consideration, please forward your curriculum vitae, resume with cover letter and the names of three references to: **Merck Research Laboratories, MRL Human Resources, WP42-2, Indicate Ad# B-167, P.O. Box 4, West Point, PA 19486**. Only qualified candidates will be contacted. We are proud to be an equal opportunity employer. M/F/V/D

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## POSITIONS OPEN

### MOLECULAR GENETICIST AND MICROBIOLOGIST

The Department of Biological Sciences at the State University of New York at Binghamton seeks to fill two tenure-track ASSISTANT or ASSOCIATE PROFESSOR positions. We seek broadly trained, interdisciplinary people in molecular genetics and in microbiology. Both should have postdoctoral experience and an outstanding research record utilizing molecular biological approaches and techniques. We expect proficient teaching at the undergraduate and graduate levels in genetics and microbiology, as appropriate. Candidates are to maintain a vigorous, extramurally funded research program in their respective discipline. We particularly welcome individuals whose research may be in the areas of signal transduction and cell cycle regulation, or may in part complement one or more existing research strengths in the department, including development and gene regulation, posttranslational control, cell-cell interactions, and apoptosis. We also encourage applicants whose research in molecular genetics or microbiology addresses major issues in evolution and/or ecology. Submit curriculum vitae, statement of research and teaching interests/experiences, and representative reprints, and have three letters of recommendation sent to: **Dr. K. L. Horvath, Department of Biological Sciences, Binghamton University, Binghamton, NY 13902-6000** by November 6, 1998. Binghamton University is one of the four doctorate-granting campuses of the State University of New York system. Please visit our website: <http://www.binghamton.edu>. Strongly committed to Affirmative Action, recruitment is conducted without regard to race, color, sex, religion, age, disability, marital status, sexual orientation, or national origin.

### THE UNIVERSITY OF WESTERN ONTARIO

The Department of Zoology, The University of Western Ontario, seeks an ANIMAL PHYSIOLOGIST/BIOCHEMIST to fill a tenure-track position at the ASSISTANT PROFESSOR level, beginning 1 July 1999. Research on invertebrates or nonhuman vertebrates is required and a minimum of two years of postdoctoral experience is preferred. The Department of Zoology offers courses in support of the BSc Biology Program, and Honors Programs in Zoology, Biology, Cell Biology, Genetics, and Ecology and Evolution. The successful candidate will be expected to interact broadly within the department, and to develop an independent research program. Teaching duties will include contributions to one or more undergraduate courses (introductory biology, introductory physiology, comparative physiology, vertebrate biology, invertebrate biology, and senior courses in the candidate's area of expertise). Applications and three letters of reference should be sent to: **Dr. J. S. Millar, Chair, Department of Zoology, The University of Western Ontario, London, Ontario N6A 5B7 Canada** by November 30, 1998.

Positions are subject to budget approval. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. The University of Western Ontario is committed to Employment Equity, welcomes diversity in the workplace, and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disability.

### ASSISTANT PROFESSOR OF BIOLOGY

Applications are invited from qualified Structural Cell Biologists to fill a tenure-track position beginning August 1999. Illinois Wesleyan University is an undergraduate university focused on the liberal arts, where excellence in teaching is emphasized. The successful applicant will have a Ph.D. and will teach courses in cell/molecular biology, an upper-level botany course, a portion of the team-taught general biology course, and possibly a non-majors course suitable for general education credit. Evidence of commitment to and experience with undergraduate teaching is important. The new faculty member is expected to develop a research program that involves students. Please send your curriculum vitae, undergraduate and graduate transcripts, statement of teaching philosophy, statement of research interests, and three letters of recommendation to: **Dr. Jonathan Dey, Acting Chair, Department of Biology, Illinois Wesleyan University, Bloomington, IL 61702-2900**. The review of candidates whose files are complete will begin 16 November 1998 and continue until the position is filled.

For further information, see our Jobs Web Page at website: <http://www.iwu.edu/~iwujobs>. Illinois Wesleyan University is an Equal Opportunity Employer.

## POSITIONS OPEN

The Department of Anatomy, Physiology, and Cell Biology, School of Veterinary Medicine, University of California, Davis, is recruiting for an ASSISTANT/ASSOCIATE/FULL PROFESSOR of veterinary physiology (50 percent state-funded, 50 percent grant-funded position). Qualifications: Ph.D. required with advanced training in vertebrate systemic physiology and a strong foundation in pathophysiology of animal diseases. D.V.M. or equivalent preferred. Demonstrated aptitude/experience in teaching vertebrate systemic physiology. Documented research record of an independent research program. Demonstrated ability to secure extramural funds. Must possess excellent interpersonal/communication skills and a demonstrated ability to work with others in a team atmosphere. Preference given to those whose research activities complement existing programs in on-campus Centers or Departmental faculty programs. For further information regarding the programs of the School of Veterinary Medicine, check the website: [www.vetmed.ucdavis.edu](http://www.vetmed.ucdavis.edu). Responsibilities: Teaching: (1) D.V.M. professional curriculum lectures and laboratories in systemic physiology; (2) participation in graduate academic programs (M.S. and Ph.D.); and (3) undergraduate instruction in physiology. Research: development of a creative, independent, and productive research program, with publication of results in professional/scientific journals; provide leadership in directing research projects of graduate students. Service: university and public service through committee work, participation in professional organizations, continuing education, and other appropriate means required.

To apply, submit (1) letter of intent outlining special interest in position, overall related qualifications, experience, and career goals; (2) curriculum vitae, including e-mail address and FAX number, if available; (3) two scientific reprints; (4) research and teaching goals summary; and (5) names, titles, and addresses of three references to: **Dr. Charles G. Plopper, Chairperson, Department of Anatomy, Physiology, and Cell Biology, School of Veterinary Medicine, University of California, Davis, One Shields Avenue, Davis, CA 95616**. Applications accepted through November 30, 1998, or until a candidate is identified. The University of California, Davis, is an Affirmative Action/Equal Opportunity Employer.

Geography. Faculty position in environmental studies/geographic sciences. Oberlin College Environmental Studies Program invites applications for tenure-track position in geography and environmental change at rank of ASSISTANT PROFESSOR or HIGHER beginning fall semester 1999. Incumbent will teach combination of five courses including introductory course in environmental studies and four upper-division courses in land use and resource management, global change, urban environmental change, geography and sustainable development, and the application of technologies. Seeking candidate with strong background in environmental studies with specific expertise in geographic and physical sciences. Requires Ph.D., preferably in geography or closely related field; demonstrated interest and potential excellence in undergraduate teaching and continuing scholarship; and record of ongoing research accomplishment. Successful teaching at the college level desirable. Applications, including curriculum vitae, graduate academic transcripts, samples of research papers, and three letters of reference, should be sent to: **Professor Roger Lushman, Acting Director, or David W. Orr, c/o Environmental Studies Program, 33 Rice Hall, Oberlin College, Oberlin, OH 44074** by November 1, 1998. Salary will depend on qualifications and experience. Affirmative Action/Equal Opportunity Employer.

### PRIMATE BEHAVIOR

The Department of Biological Anthropology and Anatomy at Duke University invites applications for a tenure-track position at the level of ASSISTANT PROFESSOR, beginning September 1999. Applicants should have an active and ongoing research interest in the evolution of primate behavior. The successful candidate is expected to develop undergraduate teaching and research at Duke University Primate Center. Send application letter, curriculum vitae, a brief description of ongoing and planned research, and names, addresses, telephone numbers, and e-mail addresses of three references to: **Dr. R. F. Kay, Chair, Department of Biological Anthropology and Anatomy, Box 3170, Duke University, Durham, NC 27710 USA**. Applications received by December 15, 1998, will be guaranteed full consideration.

Duke University is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

Augustana College is seeking a MICROBIOLOGIST or a BIOCHEMIST with an active interest in microbiology to fill a full-time tenure-track position as an ASSISTANT PROFESSOR in the Department of Biology. Responsibilities: the successful applicant for this position will (1) teach both an upper-level course in general microbiology for majors and an introductory course in microbiology, primarily for nursing and allied health students, (2) offer an upper-level course in biochemistry, (3) participate with other staff members in teaching introductory biology, and (4) provide January interim offerings. The successful applicant also will be required to direct undergraduates in publishable research and to seek extramural funding to help support that research. Start-up funds will be available. Qualifications: a Ph.D. in microbiology or biochemistry. Broad understanding of microbiology and biochemistry. A strong commitment to continuing professional/scholarly growth and to the mission of a church-related, liberal arts college. Salary: competitive; dependent upon qualifications. Excellent fringe benefits. Closing date: review of files begins on November 1, 1998. Contact person: **Dr. Lansing M. Prescott, e-mail: [prescott@inst.augie.edu](mailto:prescott@inst.augie.edu)**. Send letter of application to include a statement of educational philosophy, current research goals, curriculum vitae, high-quality copies of undergraduate and graduate school transcripts (unofficial), and three letters of reference to: **Dean of the College, Augustana College, Box 763, Sioux Falls, SD 57197**. Telephone: 605-336-5545; FAX: 605-336-4450; e-mail: [rhanson@inst.augie.edu](mailto:rhanson@inst.augie.edu); website: <http://www.augie.edu>. Augustana College is an Equal Opportunity/Affirmative Action/Title IX Employer. Qualified women and minority applicants are encouraged to apply.

### CHAIR FEDERATED DEPARTMENT OF BIOLOGICAL SCIENCES

The Federated Department of Biological Sciences of Rutgers University and the New Jersey Institute of Technology is seeking a Chair. The position will be at the level of Full Professor at Rutgers University. The Federated Department serves the undergraduate and graduate programs of Rutgers University and the adjacent New Jersey Institute of Technology (NJIT).

The new Chair will continue our commitment to high-quality undergraduate education and will contribute to the already strong graduate research program in cellular and molecular biology. The new Chair will help integrate the research and teaching interests of the Rutgers and NJIT faculties and develop collaborations when the Public Health Research Institute of New York completes its relocation to Newark.

The faculty is research-active with interests ranging from molecular genetics to landscape ecology. A detailed description of the department can be found at our website: <http://biology-newark.rutgers.edu/>.

Applications are encouraged from scientists with a record of externally funded research and administrative experience. Review of applications will begin October 15, 1998. Submit curriculum vitae and three letters of recommendation to: **Chair Search Committee, Department of Biological Sciences, Rutgers University, Newark, NJ 07102-1811**. NJIT and Rutgers University are Affirmative Action/Equal Employment Opportunity.

### ASSISTANT PROFESSOR

West Virginia University invites applications for a tenure-track position at the level of beginning Assistant Professor in the area of cellular and molecular biology. Subject to funding approval, this position will be available August 15, 1999. Applicants must have a Ph.D., or equivalent, with appropriate postdoctoral training. Teaching is an important consideration and the successful candidate will be expected to teach in the undergraduate and graduate programs of the Department of Biology. Each candidate must be prepared to establish a strong externally funded research program. We are particularly interested in expanding our research capabilities in the biology of aging, signal transduction, or gene expression but strong candidates in other areas will be considered. Please submit a curriculum vitae, a statement of teaching and research interests, and provide the names, addresses, and telephone numbers of three referees to: **Cellular and Molecular Biology Search Committee, P.O. Box 6057, West Virginia University, Morgantown, WV 26506-6057**. Review of applications will begin on January 5, 1999. West Virginia University is an Affirmative Action/Equal Opportunity Employer. Women, individuals with disability, and minority candidates are encouraged to apply.

**NATIONAL INSTITUTES OF HEALTH  
NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM  
DIVISION OF INTRAMURAL CLINICAL AND BIOLOGICAL RESEARCH**

**Chief, Laboratory of Clinical Studies**

An outstanding clinician-investigator to direct a clinical research program is sought by the National Institute on Alcohol Abuse and Alcoholism (NIAAA), National Institutes of Health (NIH). The position is located in the Clinical Center, Building 10 on the NIH Campus in Bethesda, Maryland. The Laboratory of Clinical Studies is a component of the NIAAA's Division of Intramural Clinical and Biological Research (DICBR).

The Laboratory Chief is responsible for establishing an independent clinical research program focusing on the causes, consequences, and treatments of alcohol abuse and alcoholism. Successful candidates should have a broad perspective of clinical research and the neurobiological underpinnings of alcoholism. The Laboratory has approximately 60 employees, fellows, and guest researchers and an eleven-bed inpatient ward, an outpatient clinic, and access to facilities for both structural and functional brain imaging. It has a budget of approximately \$8.5 million, which includes clinical support services.

The applicant must possess a medical degree and have licensure in at least one state and be Board-certified in a medical specialty. Experience must include managing a senior-level research program that is recognized nationally. The total compensation will be commensurate with education and experience. Candidates may be eligible for relocation or other bonuses. *U.S. citizenship is required.*

All applications should include the following: a current curriculum vitae and bibliography; a one-page synopsis of research accomplishments and research plans; and the names, addresses, and telephone numbers of five professional references. A list of the requirements or additional information about the position may be obtained by contacting **Ms. Hanratty** at the address listed below. Applications should be sent to:

**Ms. Kathleen Hanratty**  
**NIH, Bldg. 31, Room 1B58**  
**31 Center Drive MSC 2088**  
**Bethesda, MD 20892-2088**  
**Telephone: (301) 496-9842**  
**FAX: (301) 402-0016**  
**E-mail: [kh54d@nih.gov](mailto:kh54d@nih.gov)**

Applications **MUST** be received no later than January 31, 1999.

*NIH is an Equal Opportunity Employer. Applications from women, minorities, and persons with disability are strongly encouraged. The DICBR/NIAAA is a smoke-free environment.*



**Center for Scientific Review  
National Institutes of Health**

**Senior Executive Service Opportunities  
Closing Date: October 23, 1998**

The Center for Scientific Review (CSR) invites applications for three Senior Executive Service positions to provide scientific leadership and management of each of the three CSR Divisions responsible for conducting scientific merit review of research and research training grant applications. Responsibilities include tracking progress across broad fields of science; serving as a key member of the Center's senior leadership team participating in strategic planning for the Center's scientific and management goals; overseeing program activities of several Initial Review Groups; and providing second-level management to the large group of professional staff within each Division.

These are Civil Service positions with a base salary ranging from \$106,412 to \$125,900 per year, depending on qualifications. A recruitment bonus of up to 25 percent of base pay may be available to a non-Federal candidate selected for this position, subject to individual approval. A relocation bonus of up to 25 percent may be available to a permanent Federal employee who must relocate to accept this position, subject to individual approval. Physicians may be eligible for a Physicians Comparability Allowance up to \$20,000 per year. Benefits include health and life insurance options, retirement, savings plans, paid holidays, and vacation and sick leave. Members of the Commissioned Corps of the U.S. Public Health Service and SES reinstatement eligibles will be considered.

Application procedures and qualification requirements may be accessed on the CSR website at **<http://www.csr.nih.gov/employment>**, or contact the **Human Resources Branch** at **(301) 435-1122**. Applications for these positions must be postmarked by October 23, 1998.

*Selection for this position will be based on merit, with no discrimination for nonmerit reasons such as race, color, religion, sex, national origin, politics, marital status, physical disability, age, sexual orientation, or membership/nonmembership in an employee organization.*

*NIH is an Equal Opportunity Employer*



## POSITIONS OPEN

### BIOLOGICAL CHEMISTRY DARTMOUTH COLLEGE

Applications are invited for a faculty position at the **ASSISTANT or ASSOCIATE PROFESSOR** level starting July or September 1999. The Chemistry Department seeks an individual who will establish a nationally recognized research program in biophysical, bioinorganic, or bioorganic chemistry at Dartmouth, and who will excel at teaching in our undergraduate and Ph.D. curricula. Preference will be given to individuals who conduct experimental research on the structure-function relationships of biological macromolecules through studies of their chemical, physical, and structural properties. Leadership and undergraduate teaching in this area are expected, as is the ability to offer graduate courses in one's specialty and to teach introductory courses either in general or organic chemistry. Applicants should submit a curriculum vitae, a statement of their scientific accomplishments and future research directions, and a statement about their teaching experience and interests. Applicants should also arrange to have three letters of recommendation sent on their behalf. All inquiries and applications will be treated confidentially. Application materials should be sent to: **Professor Dean E. Wilcox, Biological Chemist Search Committee, Department of Chemistry, 6128 Burke Laboratory, Dartmouth College, Hanover, NH 03755-3564.** The Committee will begin to consider completed applications on October 15, 1998. *Dartmouth College is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT PROFESSOR CELLULAR/DEVELOPMENTAL BIOLOGY THE JOHNS HOPKINS UNIVERSITY

The Department of Biology invites applications for a tenure-track faculty appointment in the fields of cellular and/or developmental biology. Regardless of particular expertise (plant vs. animal, etc.), we are most interested in applicants of the highest caliber who have outstanding research records. The successful candidate is expected to establish a vigorous research program and to participate in graduate and undergraduate teaching. Note that this position is in addition to a biochemistry/biophysics Assistant Professorship advertised earlier.

Information about the research interests of the faculty, teaching program, and Departmental resources may be obtained at the Department's website: <http://www.bio.jhu.edu/>.

Applicants should submit a curriculum vitae, together with a statement of current and planned research, and arrange to have three letters of recommendation sent to: **Search Committee in Cellular/Developmental Biology, Department of Biology, The Johns Hopkins University, 3400 North Charles Street, Baltimore, MD 21218.**

Deadline for receipt of applications is November 30, 1998.

*The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are especially encouraged to apply.*

**ASSISTANT PROFESSOR** of microbiology. Applications are invited for an entry-level tenure-track appointment in the Department of Biological Sciences at Towson University. Teaching responsibilities (nine to 12 contact hours a week) will include one or two courses each semester that rotate among general biology, genetics, microbiology, and a graduate course. The successful candidate will be expected to establish an extramurally funded research program using molecular approaches and involving undergraduate and graduate students that will complement existing research in the department. A Ph.D. is required, postdoctoral experience preferred. A completed application should include a résumé; transcripts from all institutions attended; one-page statement on teaching philosophy; one-page statement on research interests; and three letters of reference. Review of applications will begin November 6, 1998. The department has 27 full-time faculty, approximately 700 majors, and an M.S. program with about 30 students. Salary is competitive with similar institutions. Visit the Department's website: [www.towson.edu/~wubah/biology](http://www.towson.edu/~wubah/biology). Completed applications should be sent to: **Dr. Gail Gasparich, Chair, Microbiology Search Committee, Department of Biological Sciences, Towson University, 8000 York Road, Towson, MD 21252-7097.** *Towson University is an Equal Opportunity/Affirmative Action Employer and has a strong institutional commitment to diversity. Women, minorities, persons with disability, and veterans are encouraged to apply.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR BIOSENSORS AND/OR THEIR APPLICATION TO BIOPROCESS CONTROL

Tenure-track, 12-month position in the Department of Agricultural and Biological Engineering, Cornell University, Ithaca, NY 14853-5701.

This position is a balanced effort between research (50 percent) and teaching (50 percent) with responsibilities for development and/or application of biosensors to control in agricultural, biological, environmental, and/or food processes.

Responsibilities for the position include development of an upper-level undergraduate course and a graduate course. These courses should reflect the candidate's area of expertise. Mentoring of undergraduate and graduate students and securing external funding are expected.

The appointee will establish a research program in the area of biosensors (development and/or application) applied to agricultural, biological, environmental, and/or food processes. Research could include development and application of biosensors to measure chemical, biochemical, and other outputs (enzymes, hormones, nutrients, therapeutic drugs, residual chemicals, etc.) of importance to agricultural, biological, environmental, and food systems as well as the control of processes in these areas.

A Ph.D. in agricultural, biological, electrical, material science, or other related engineering discipline is required.

Salary is competitive, commensurate with background and experience. Attractive fringe benefits are available. Starting date: December 1, 1998, or later mutually agreeable date.

Applicants are to submit a letter of application, curriculum vitae, transcripts, and names of three references to: **Michael F. Walter, Chair, Department of Agricultural and Biological Engineering, 104 Riley-Robb Hall, Cornell University, Ithaca, NY 14853-5701.**

Closing date: October 12, 1998, or as soon as a suitable candidate is located.

*Cornell University is an Affirmative Action/Equal Opportunity Employer.*

The University of Nevada, Las Vegas, Department of Chemistry, part of a major expansion, is seeking candidates for three tenure-track **ASSISTANT PROFESSOR** positions in biochemistry, analytical and physical/inorganic, whose research will complement existing strengths in cancer biochemistry, environmental chemistry, and X-ray spectroscopy. Successful candidates will be expected to develop vigorous research programs involving graduate and undergraduate students. A strong commitment to excellence in teaching also is required. Qualifications include a Ph.D. and postdoctoral experience. The Department offers B.A., ACS-accredited D.S., and M.S. degrees, participates in interdisciplinary Ph.D. programs in molecular biology, environmental science, and chemical physics, and is scheduled to implement a chemistry Ph.D. within three years. Positions start fall 1999 contingent upon funding; salaries will be commensurate with qualifications and experience. For the biochemistry position, research emphasizing biochemical mechanisms of oncogenesis is preferred. To apply for the biochemistry position, send application, curriculum vitae, research plans, copy of graduate transcript, and three letters of reference by December 1, 1998, to: **J. A. Elegbede, Department of Chemistry, University of Nevada, Las Vegas, 4505 Maryland Parkway, Las Vegas, NV 89154-4003.** Position is open until filled. For more information on the analytical and physical/inorganic positions, the Department, and UNLV, visit our website: [www.unlv.edu](http://www.unlv.edu). *Affirmative Action/Equal Opportunity Employer. Minorities, women, veterans, and the disabled are encouraged to apply.*

**ASSISTANT PROFESSOR.** Analytical chemistry, California State University, Long Beach, invites applications for a tenure-track position beginning August 1999. Applicants must have a Ph.D. in analytical chemistry or a closely related area, a demonstrated potential for effective teaching and for developing an independent, externally funded research program involving undergraduate and Master's students. Postdoctoral experience preferred. To apply, submit a letter of application, a résumé, and a statement of research and teaching interests, and have official transcripts from undergraduate and graduate institutions and three letters of recommendation sent by December 4, 1998, to: **Dr. Dennis M. Anjo, Chair of Analytical Search Committee, Department of Chemistry and Biochemistry, California State University, Long Beach, CA 90840-3903. FAX: 562-985-8557.** *California State University, Long Beach, is an Equal Opportunity/Affirmative Action/Title IX Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR

The Department of Biochemistry and Biophysics at Oregon State University invites applications for a tenure-track faculty position, with specialization in vertebrate cell culture and cell signaling processes. The appointee will serve also as **DIRECTOR** of the Environmental Health Sciences Center Cell Culture Facility. The appointee is expected to develop an active, extramurally funded research program and to participate in the department's teaching program. The department has 12 full-time and three adjunct faculty members, occupies 30,000 square feet of space completed in 1992, and has a strong record of peer-reviewed research funding and publication. The Environmental Health Sciences Center has been funded for more than 30 years by an NIEHS center grant and coordinates research in multiple areas of environmental health sciences.

Applicants must hold a Ph.D. or comparable degree and postdoctoral research experience in biochemistry, molecular biology, cell biology, or a closely related area. Each application should include a letter expressing interest in this opportunity, a curriculum vitae, a concise description of research plans, and three letters of reference sent to: **Dr. Michael Schimerlik, Search Committee Chair, Department of Biochemistry and Biophysics, Oregon State University, Corvallis, OR 97331-7305.**

For full consideration, applications should be received by November 30, 1998, but applications will be accepted until the position is filled. *Oregon State University is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to dual-career couples.*

Faculty position in plant molecular systematics and evolution. The Clark University Department of Biology invites applications for a tenure-track **ASSISTANT PROFESSOR** position beginning fall 1999. The successful candidate will have a strong botanical background, a commitment to excellence in teaching, and demonstrated potential to establish a strong, funded research program in the area of phylogeny and evolution in plants at the molecular level. Responsibilities include teaching undergraduate and graduate courses related to plant biology and contributing to Clark's interdisciplinary programs in biochemistry, molecular biology, and the environment. Review of applications begins in mid-November 1998. Applicants should submit a curriculum vitae, two reprints, statements of teaching and research interests, and the names of three references to: **Chair, Plant Molecular Systematics Search Committee, Department of Biology, Clark University, 950 Main Street, Worcester, MA 01610.** *Clark University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are especially encouraged to apply.*

Apotex Fermentation Inc. is the leading Canadian research, development, and production organization engaged in the discovery, development, and scale-up of fermentation, downstream processing, and purification technologies for active pharmaceutical ingredients under cGMP. Due to our growth objectives, we now offer the following employment opportunities.

### PROCESS SCALE-UP MANAGER QUALITY SYSTEMS MANAGER MICROBIOLOGISTS, CHEMISTS, AND BIOCHEMISTS for Research and Scale-Up

For further details, visit our website: [www.apoferm.mb.ca](http://www.apoferm.mb.ca). Preferred candidates will possess a relevant Ph.D. or Master's degree and have related industrial experience. Résumés to: **Human Resources Department, Apotex Fermentation Inc., 40 Scurlfield Boulevard, Winnipeg, Manitoba R3Y 1G4 Canada. FAX: 204-488-4063; e-mail: [hr@apoferm.mb.ca](mailto:hr@apoferm.mb.ca).**

**ENDOWED PROFESSORSHIP.** University of California, Davis Medical School. Tenure-track position available as **ASSISTANT or ASSOCIATE PROFESSOR**. The candidate will have a joint appointment in a Basic Science Department and Internal Medicine in the Division of Nephrology. Candidates must possess a Ph.D. with interests in molecular or cellular biology, and research related to inflammation. Applicants for Associate must be externally funded and for Assistant must have postdoctoral experience with extramural funding. Responsibilities: developing an active, innovative independent research program and participation in medical education. Inquire: **George Kaysen, M.D., Ph.D., Nephrology TB 136, Davis, CA 95616.** Open until filled, but not later than November 30, 1998. Anticipated start date July 1, 1999. *Affirmative Action/Equal Opportunity Employer.*

**MAYO CLINIC  
DEPARTMENT OF  
MEDICAL GENETICS**



**Senior Associate Consultant Position**

Mayo Clinic, Department of Medical Genetics, is seeking a clinical geneticist for its expanding clinical genetics program. All applicants must have a M.D. degree and be Board-certified or Board-eligible for certification in clinical genetics by the American Board of Medical Genetics. In addition to participating in existing clinical programs, we seek an individual to expand collaborative initiatives with the Mayo Cancer Center and/or the Molecular Medicine Program. A successful candidate will be expected to participate in education and research activities. Academic rank and salary will be commensurate with experience. Applications should be received prior to October 1, 1998.

Curriculum vitae, a cover letter detailing experience, future interests, and names of three individuals who can provide letters of recommendation should be sent to:

**Gerard Vockley, M.D., Ph.D., Chair  
Search Committee for the Department of  
Medical Genetics, Mayo Clinic, 200 First  
Street S.W., Rochester, MN 55905  
FAX: 507/284-1067**

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

**GRANTS**



**LEUKEMIA RESEARCH FOUNDATION GRANTS**

The Leukemia Research Foundation announces funds are available to support leukemia-related research. Relatedness to leukemia will be interpreted in the broad sense such that applications in areas as biochemistry, microbiology, virology, molecular biology, genetics, and immunology will be acceptable as long as the proposed project relates to some significant aspect of leukemia. The goal of the grant program is to support new investigators; preference will be given to applicants proposing new lines of investigation. Currently two types of Grants are being funded; new investigator research grants, and postdoctoral fellowships. Grants and fellowships are for a one-year period, and may be renewable for a second year. **DEADLINE FOR RECEIPT OF COMPLETED GRANT APPLICATIONS IS FEBRUARY 15, 1999.**

**New Investigator Research Grant Policies:**

1. Eligibility is restricted to investigators who are staff members of a university, hospital, or a nonprofit research institute. The applicant must be less than five years beyond the end of training at the time of the proposed starting date of the grant award.
2. Maximum budget request is \$50,000. The funds may not be used for salary support of the principal investigator.

**Postdoctoral Fellowship Policies:**

1. Eligibility is restricted to postdoctoral trainees with an M.D. or Ph.D. degree. The fellow must have no greater than three years of postdoctoral training (excluding medical residency) at the time of the proposed starting date of the grant award.
2. Maximum budget request is \$25,000. The funds are used for the fellow's salary support.

For further information and applications, contact:

**Hollis R. Brownstein, Chairman  
Medical Advisory Committee  
Leukemia Research Foundation, Inc.  
820 Davis Street, Suite 420  
Evanston, IL 60201  
Phone: 1-847-424-0600  
Fax: 1-847-581-0779  
E-mail: hollis-lrf@worldnet.att.net**

If you prefer, our application and guidelines are available for downloading from our website address: [www.leukemia-research.org](http://www.leukemia-research.org).



**MAYO CLINIC**

**Research on zinc finger transcriptional repressors, epithelial 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. 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, M.D.  
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)  
Mayo Foundation is an Affirmative  
Action and Equal Opportunity  
Employer and Educator.**



Public Health Service  
National Institutes  
of Health  
National Institute of  
Environmental Health  
Sciences  
Research Triangle Park  
North Carolina

**POSTDOCTORAL RESEARCH POSITION**

A postdoctoral position is available in the Clinical Studies Section, Laboratory of Pulmonary Pathobiology at NIH/NIEHS to study novel genes that are involved in arachidonic acid metabolism and in the pathogenesis of cardiovascular disease and hypertension (J. Biol. Chem. 271:3460-3468, 1996; J. Biol. Chem. 272:12551-12559, 1997; Genomics 49:152-155, 1998). Emphasis is placed on delineation of the molecular mechanisms involved in gene regulation and the functional significance of the eicosanoid metabolites with respect to heart and kidney physiology. Applicants should possess a Ph.D. degree in Molecular Biology, Cell Biology, Biochemistry, or a related field, and have no more than five years of relevant postdoctoral experience. Salary will be commensurate with experience.

For prompt consideration, send, FAX, or e-mail cover letter, curriculum vitae including publication list, and the names of three people who could provide letters of reference to:

**Darryl C. Zeldin, M.D., Head, Clinical  
Studies Section, Laboratory of Pulmonary  
Pathobiology, NIH/NIEHS, P.O. Box 12233,  
Maildrop D2-01, Research Triangle Park,  
NC 27709; FAX: 919-541-4133; e-mail:  
[ZELDIN@NIEHS.NIH.GOV](mailto:ZELDIN@NIEHS.NIH.GOV)**

NIH is an Equal Employment Opportunity Employer.

**POST-DOCTORAL FELLOW**

**The Pulmonary - Critical Care  
Medicine Branch (P-CCMB)  
National Heart, Lung,  
& Blood Institute, NIH**

Post-doctoral research fellowship positions are available for individuals interested in cell and molecular biology, as well as bench-to-bedside translational research. Opportunities for post-doctoral research fellowships exist within intramural P-CCMB laboratories investigating clinical and basic research relating to signal transduction, nitric oxide, G proteins, protein modification, vesicular trafficking and cyclic nucleotide phosphodiesterases. Positions are available for a minimum of 2 years and may be extended for additional training. Candidates should possess a Ph.D. or M.D. degree or equivalent. Positions are available immediately. Interested individuals should submit a letter of interest, curriculum vitae, and three letters of recommendation to: **Joel Moss, M.D., Ph.D., Chief, Pulmonary-Critical Care Medicine Branch, NHLBI, NIH, Building 10, Room 6D03, MSC 1590, Bethesda, Maryland 20892-1590.**

NIH is an Equal Opportunity Employer

## POSITIONS OPEN

### MICROBIOLOGIST

The Biology Department of Albion College seeks a full-time, tenure-track Microbiologist to begin August 1999. A Ph.D. is required, and teaching experience is preferred. The successful candidate will be expected to teach an upper-level, undergraduate course in microbiology that includes environmental and medical perspectives. A second upper-level offering will focus on a topic such as environmental microbiology, immunology, or microbial evolution, depending on the successful candidate's particular area of expertise. The candidate will also share responsibilities in introductory biology courses. A research program incorporating undergraduate students is expected. Facilities include standard molecular biology equipment (including thermal cycler, DNA sequencing apparatus, and ultra-low freezer), TEM and SEM, and a 135-acre nature center. Further information is available at website: <http://www.albion.edu/fac/biol>. Send letter of application, including teaching philosophy and research interests, current curriculum vitae, graduate and undergraduate transcripts, and three letters of reference to: **Dr. Ruth E. Schmitter, Chair, Biology Department, Albion College, Albion, MI 49224.** Deadline for applications is October 15, 1998. *Albion College is an Equal Opportunity Employer. Albion College encourages applications from women and minority candidates.*

### OPPORTUNITIES IN RESEARCH AND DEVELOPMENT

Consensus Pharmaceuticals, a newly formed company exploiting a unique drug discovery technology, is seeking candidates to fill a variety of positions. Successful candidates will have a strong background in the synthetic and analytical aspects of peptide chemistry, and in the development of enzyme inhibitors. A Lab Manager with a background in peptide chemistry is also being sought. Consensus offers a challenging, fast-paced entrepreneurial environment and an excellent compensation package. Positions are available at the following levels: **SENIOR SCIENTIST** (Ph.D.); **RESEARCH ASSOCIATE** (B.S., M.S.); and **LAB MANAGER** (M.S. or Ph.D.).

Interested candidates should submit a curriculum vitae to:

**Consensus Pharmaceuticals, Inc.  
Director of Human Resources  
200 Boston Avenue  
Medford, MA 02155**

*Consensus is an Equal Opportunity Employer.*

The Division of Pulmonary and Critical Care Medicine, University of Miami School of Medicine at Mount Sinai Medical Center, is seeking a **CELLULAR IMMUNOLOGIST** with one to two years of postdoctoral experience to study the immunobiology of heparin-glycosaminoglycans. Candidates should have sufficient research experience to study the interactions of glycosaminoglycans with cytokines, eosinophils, and lymphocytes. Funding is guaranteed for two years. Interested candidates should send an application including curriculum vitae, bibliography, a brief statement indicating research interests, and three letters of reference to: **Tahir Ahmed, M.D., Chief, Division of Pulmonary Diseases, Mount Sinai Medical Center, 4300 Alton Road, Miami Beach, FL 33140.** *Equal Opportunity Employer. We support a drug-free workplace.*

### RESEARCHERS

#### CORNELL UNIVERSITY MEDICAL COLLEGE

Two NIH-supplemented positions (**POSTDOCTORAL** and **RESEARCH TECHNICAL**) available for highly motivated scientists with expertise in molecular and cellular biology to study signal transduction in vascular biology. Anticipate developing long-term commitment with one or both. Send or FAX curriculum vitae to: **K. Craig Kent, M.D., Chief, Division of Vascular Surgery, New York Presbyterian Hospital-Cornell University Medical College, 525 East 68th Street, P-1909, New York, NY 10021. FAX: 212-746-5812.**

### ENTREPRENEURIAL OPPORTUNITY

New bioinformatics start-up requires accomplished scientists to join as **FOUNDERS**. You should have expertise in at least one of the following: physiology, target validation for drug development, scientific publishing, animation, or visualization of biological knowledge. Contact with or experience in working for pharmaceutical companies a plus. Boston area. Serious inquiries only. Contact e-mail: [centraldogma@erols.com](mailto:centraldogma@erols.com) for details.

## POSITIONS OPEN

### RESEARCH SPECIALIST UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO

The Cancer Center at the University of California, San Francisco (UCSF) is seeking a Research Specialist for our Genome Analysis Core Facility. As part of the Cancer Center Molecular Diagnostics Core, this facility provides a variety of genomic analysis services to the UCSF faculty and their collaborators. Some of these services are DNA sequencing, mutation detection, loss of heterozygosity, linkage analysis, and gene expression quantification. In particular, an Applied Biosystems 7700 eTaqMan™ quantitative PCR (QPCR) instrument is used to perform gene expression and DNA copy number analysis.

Primary responsibilities of this position will be to manage the QPCR analyses including direct interaction with Principal Investigators, devising experimental designs, performing instrumentation setup, data acquisition, computerized data analysis, and interpretation of results. Requirements are an M.S. or Ph.D. degree in molecular biology/biochemistry and extensive experience with PCR, RT-PCR, and QPCR, preferably using the TaqMan™ technology. Candidates should be outgoing, with strong communications and organizational abilities as well as instrumentation and experimental skills. The successful candidate will be appointed to this career position at an **ASSISTANT, ASSOCIATE, or FULL SPECIALIST** level depending on qualifications and experience.

Please send curriculum vitae and names of three references to: **Tony Godfrey, Ph.D., Manager, Cancer Center Genome Analysis Core Facility, University of California San Francisco, Box 0808, San Francisco, CA 94143. E-mail: [godfrey@cc.ucsf.edu](mailto:godfrey@cc.ucsf.edu); FAX: 415-502-5665.**

### POSITION AVAILABLE IN CARDIOVASCULAR MRI

Massachusetts General Hospital, Department of Radiology seeks an experienced MRI Radiologist to direct a Cardiovascular MRI Program with appointment at the Harvard Medical School. Duties will include the performance and interpretation of MRI studies of the heart and cardiovascular system. Board certification and MRI Fellowship are required. Appointment at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level, depending on qualifications. Please reply with cover letter and three references:

**Thomas J. Brady, M.D.  
Director of Radiology Research  
Massachusetts General Hospital  
Bartlett 703  
55 Fruit Street  
Boston, MA 02114**

*Applications from qualified women and members of minority groups are encouraged. Massachusetts General Hospital is an Equal Opportunity/Affirmative Action Employer.*

**DNA DIAGNOSIS SECTION CHIEF.** The Texas Department of Health (TDH) is recruiting a **MICROBIOLOGIST V** to be headquartered in Denton, Texas. Supervises operations of the DNA Diagnostic Section of the Cytogenetic Testing Branch. Establishes and updates standard protocols for the molecular diagnosis of human genetic diseases ascertained by the Neonatal Screening Program of Texas (PKU, CAH, sickle cell disease, galactosemia). Prefer applicants with experience in clinical molecular genetics, ABMG certification or eligibility, and supervisory experience. Contact: **Texas Department of Health Bureau of Human Resources, 1100 West 49th Street, Austin, TX 78756. Telephone: 512-458-7345.** Resumes not accepted. Use Posting Number 98-TDH-1227 to apply. The posting closes on October 23, 1998. *Equal Opportunity/Americans with Disabilities Act Employer.*

### RESEARCH FELLOW

Seeking a highly motivated candidate to perform research for a study on RNA processing in yeast. Requires a Ph.D. in biochemistry, molecular biology, or genetics. You must have a research background involving protein purification, RNA biochemistry, or yeast genetics.

Send curriculum vitae and contact information of three references to: **Scott Sparks, Senior Recruiter, City of Hope National Medical Center, 1500 East Duarte Road, Duarte, CA 91010. FAX: 626-301-8448; e-mail: [cohapply@smtplink.coh.org](mailto:cohapply@smtplink.coh.org).** *Equal Opportunity Employer.*

## POSITIONS OPEN

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

### RESEARCH SCIENTIST ASSOCIATE V \$2,636 per Month Salary Flexible Depending Upon Qualifications

The University of Texas at San Antonio Division of Life Sciences seeks a person to work on a National Institute on Drug Abuse-funded project to investigate how opioid peptides influence learning at several levels of analysis including behavioral, electrophysiological, and molecular. This position requires a doctorate in neurobiology or a related field. Experience in grant writing, conducting research, manuscript preparation, and laboratory administration is preferred. Duties include preparation of all grant-related materials, conducting research, and preparation of manuscripts related to the grant, laboratory administration, and supervision of graduate and postdoctoral students.

To apply: submit completed employment application or current curriculum vitae, for job listing #372, to: **The Human Resources Office, 6900 North Loop 1604 West, San Antonio, TX 78249-0610. Telephone: 210-458-4250; FAX: 210-458-4647.**

*The University of Texas at San Antonio is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*

### DIRECTOR OF ENVIRONMENTAL SCIENCE DIVISION

Challenging opportunity to build and direct major research program for leading environmental nonprofit organization now in its 35th year. Broad-based applied research includes wetlands ecology, ecological restoration, wildlife habitat monitoring, hydrological impacts on terrestrial and estuarine systems, water quality monitoring, sea turtle nesting, and Everglades issues. Support organization's advocacy and public education activities. Qualifications: Ph.D. or equivalent in ecology or related field, with experience in aquatic/wetlands ecology, hydrology, and habitat conservation and restoration. Supervisory and team-building skills; excellent written and oral communication skills; strong organizational abilities; successful track record writing and administering grants and managing budgets. Position reports to President. Send application letter, curriculum vitae, writing sample, and three references to: **Human Resources Director, The Conservancy of Southwest Florida, 1450 Merrihue Drive, Naples, FL 34102.** Salary: commensurate with qualifications and experience. *Equal Opportunity Employment; drug-free workplace.*

### ANATOMIST

The Department of Anatomy at Mayo Medical School and Mayo Clinic/Foundation is seeking an Anatomist who is qualified to teach gross anatomy, microscopic anatomy, and embryology. Mayo Medical School is the smallest medical school in the United States with only 42 students per class. The candidate will be expected to share equally in the anatomy instruction to medical students, plus conduct review courses for residents. Teaching duties vary during the year, leaving some opportunities for research. The candidate will have access to state-of-the-art facilities and excellent opportunities for collaboration. A Ph.D. or comparable degree is required. Applicants are asked to submit a letter of interest along with their curriculum vitae and the names of three references to: **Stephen Carmichael, Ph.D., Chair, Anatomy Search Committee, Mayo Clinic, Rochester, MN 55905** by 1 November 1998. You may contact Dr. Carmichael at e-mail: [carmichael.stephen@mayo.edu](mailto:carmichael.stephen@mayo.edu). *Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.*

### HEALTH RESEARCH ANALYSTS

ECRI, a nonprofit health services research organization, seeks individuals with the ability to work within a team-oriented "think tank" group to assess the effectiveness and cost-effectiveness of medical devices, drugs, and procedures. Ph.D. in life or social sciences, ability to critically evaluate the medical literature, excellent writing skills, and ability to simultaneously work on several projects. Knowledge of statistics or computer modeling a plus. Qualified applicants must complete a 25-page test report. Resumes and cover letter to: **Department CT, ECRI, 5200 Butler Pike, Plymouth Meeting, PA 19462. FAX: 610-834-1275.** *Equal Opportunity Employer/Affirmative Action.*





State University of New York  
Health Science Center  
Syracuse

### Two Faculty Positions SUNY Health Science Center at Syracuse

As part of an expansion of our research programs, we invite applications for two tenure-track positions at the Assistant Professor level. Applicants must have a Ph.D., or equivalent degree, postdoctoral experience, demonstrated research productivity, and a commitment to excellence in research and teaching. Salary, space, and start-up funds are competitive with national levels. Send by **November 15th** a letter of application, curriculum vitae, a description of research goals, and three letters of reference (name the referees in your letter) directly to the **Search Committee Chair** (of the department of interest as listed below), **State University of New York-Health Science Center, 750 E. Adams Street, Syracuse, NY 13210**. Only applications directed to a specific position will be accepted.

**Pharmacology.** The department will select an outstanding candidate whose research program focuses on signal transduction/intracellular signaling, and complements existing departmental strengths (cardiovascular electrophysiology and molecular biology, cellular and molecular neurobiology, molecular pharmacology, and membrane transport).

**Anatomy and Cell Biology.** The department is seeking an individual who uses cellular and molecular approaches to answer questions in neurobiology. Preferably the person's background will complement institutional strengths in sensory and motor systems, development, and regeneration.

For details, see: [www.hscsy.edu/home/medicine/medicinepage.html](http://www.hscsy.edu/home/medicine/medicinepage.html)

*An Affirmative Action/Equal Employment Opportunity/ADA Employer.*

### The University of Illinois at Urbana-Champaign School of Molecular & Cellular Biology Two Positions, Rank Open, in Cell Biology or Developmental Biology

The School of Molecular and Cellular Biology at the University of Illinois at Urbana-Champaign invites scientists with interests in Cell Biology and/or Developmental Biology to apply for faculty positions in the School. These positions are full-time and, depending on qualifications, may involve appointment at the Assistant, Associate, or Full Professor level. The starting date for both positions is August 1999. Appointment at the Assistant Professor level requires a doctoral degree, postdoctoral experience, and evidence of outstanding research potential. Appointees at this level will be expected to develop a vigorous, independently funded research program. Appointment at higher levels requires evidence of outstanding research accomplishments including extramural funding and national recognition. Applicants at all levels will be expected to contribute effectively to undergraduate/graduate teaching. **Laboratory facilities, substantial start-up funds, and a salary commensurate with experience will be provided.** The University of Illinois at Urbana-Champaign offers highly interactive, interdisciplinary research environment and state-of-the-art research support facilities. The University is committed to significant future growth in the biological sciences. Urbana-Champaign offers the residential advantages of a medium-sized university city, excellent cultural opportunities, and easy access to Chicago and St. Louis. Information concerning the University can be found at <http://www.uiuc.edu/>. Applicants should submit a curriculum vitae with a complete list of publications, a summary of research interests and future plans, and arrange to have four letters of reference sent to: **Cell and Developmental Biology Search, School of Molecular and Cellular Biology, University of Illinois at Urbana-Champaign, 393 Morrill Hall, 505 S. Goodwin Ave., Urbana, IL 61801**.

To ensure full considerations, applications should be received by Nov. 15, 1998. Interviews may be conducted before the closing date but no final decisions will be made before that time.

*The University of Illinois at Urbana-Champaign is an Affirmative Action, Equal Opportunity Employer.*

## Biopharmaceutical Development cGMP Manufacturing

The **Collaborative BioAlliance** is currently staffing its newly-constructed, state-of-the-art biopharmaceutical cGMP Clinical Production Facility. The CBA is recruiting at all levels in the Biopharmaceutical Sciences and cGMP Manufacturing groups. The following positions are available immediately:

### Group Leader: Fermentation

Responsible for recombinant microbial fermentation scale up. Candidates must possess a Ph.D. in Biochemical Engineering or Microbiology, with 5 years of industry experience.

### Group Leader: Protein Purification

Responsible for recombinant protein purification scale up. Must be skilled in preparative chromatography, protein solubilization & refolding and protein characterization. Candidates must possess a Ph.D. in Biochemical Engineering or Biochemistry, with 5 years of industry experience.

### Group Leader: Bioanalytical and Formulation Development

Responsible for formulation and characterization of recombinant proteins for therapeutic use. Must have extensive experience in bioanalytical methods development and protein characterization using state-of-the-art instrumentation. Candidates must possess a Ph.D. in Biochemistry or a related discipline, with 5 years of industry experience.

### Group Leader: Validation

Responsible for calibration and validation of bioprocess equipment and systems including writing and executing validation protocols. Candidates must possess a BS/MS in Chemical Engineering, or a related discipline, with 5 to 8 years of industry experience.

### Senior Scientist: Molecular Biology/Microbiology

Responsible for heterologous gene expression in microbial systems, host strain selection & improvement, expression vector development & optimization and cell banking. Candidates must possess a Ph.D. in Microbiology or a related discipline, with a minimum of 5 years experience.

### Senior Scientist: Protein Purification

Responsible for recombinant protein purification process development. Familiarity with protein folding is essential. Candidates must possess a Ph.D. in Biochemistry or a related discipline, with 3 years experience.

### Research Associates: Bioprocess Development & Manufacturing

Responsible for assisting scientists in bioprocess development, analytical methods development and manufacturing operations. Candidates must possess a BS/MS in life sciences/Engineering or a related discipline with 2 years experience.

Preference will be given to candidates with relevant industrial experience and knowledge of cGMP's.

The CBA is located adjacent to the campus of SUNY Stony Brook and enjoys access to the University's resources and facilities. Collaborative offers competitive salaries and benefits including medical dental, 401(k) plan and much more. For immediate consideration, send your résumé via post, fax or e-mail. Please include your salary requirement and desired position.

Human Resources Division • Collaborative BioAlliance  
50 East Loop Road • Stony Brook, New York 11790  
tel 516.689.9036 • fax 516.689.2890 • e-mail [cba@the-cba.com](mailto:cba@the-cba.com)

[HTTP://WWW.THE-CBA.COM](http://www.the-cba.com)

**COLLABORATIVE BIOALLIANCE, INC.**  
A COLLABORATIVE GROUP COMPANY

an equal opportunity employer m/f/d/v

## POSITIONS OPEN

**NEUROBIOLOGISTS.** The new Section of Neurobiology in the reorganized School of Biological Sciences of the University of Texas at Austin invites applications for two faculty positions. Applicants must have a Ph.D. or similar degree. Successful candidates will be expected to establish an active research program, and to teach at both graduate and undergraduate levels. Applications will be considered as they arrive, but should be received by 30 November 1998 and should include names of three references (including e-mail addresses and telephone numbers).

Alcoholism and drug addiction research. **MOLECULAR NEUROBIOLOGIST** to join expanding program for alcoholism and addiction research. Preference given to applicants with expertise in mutant mouse (knock-in) techniques, molecular genetics, or ion channel structure and function. Record of outstanding research productivity and accomplishment required. Submit curriculum vitae and outline of proposed research program (in alcoholism or drug addiction) to: **Dr. R. Adron Harris, Institute for Cellular and Molecular Biology, University of Texas, 2500 Speedway, Austin, TX 78712-1095.**

Neuronal development or plasticity. Preference given to applicants using molecular, genetic, or biophysical approaches to study neuronal development or plasticity at the cellular or systems level. Teaching needs are in neurobiology or introductory biology. Submit curriculum vitae and statement of research plans and teaching interests, and representative reprints to: **Dr. Klaus Kalthoff, Neurobiology Search Committee, c/o Department of Zoology, University of Texas, Austin, TX 78712.**

*The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.*

## MICROINJECTIONIST

A position is immediately available for an experienced Microinjectionist to create transgenic lines for the study of Alzheimer's disease and other neurodegenerative disorders. The successful applicant should have experience in standard pronuclear injection of mice, animal husbandry, and colony management. Experience in blastocyst injections for the creation of knockout mice, or microinjection of rat embryos would be an advantage.

## NEUROSCIENTIST

**POSTDOCTORAL POSITIONS** are available to work on transgenic models of neurodegenerative disease. Applicants with a strong background in molecular biology and/or immunohistochemistry are invited to apply.

Both positions are available at the Nathan Kline Institute (NKI). NKI is a state facility associated with New York University, located in Rockland County, within 12 miles of midtown Manhattan. The applicants will join a group led by **Dr. Karen Duff** that has a proven publication record in the analysis of transgenic mice for the study of Alzheimer's disease. Applicants will be offered an attractive salary and benefits package, commensurate with experience, and will work in an interactive, academic environment. Send curriculum vitae and names of three references to: **Karen Duff, Ph.D., Nathan Kline Institute, New York University Medical Center, 140 Old Orangeburg Road, Orangeburg, NY 10962. FAX: 914-398-5422; e-mail: duff@nki.rfmh.org. Equal Opportunity Employer/Affirmative Action.**

Mayo Clinic **RESEARCH ASSOCIATE** position or **RESEARCH FACULTY** position is available in the Transplant Immunology Program. The candidate should hold a Ph.D. and have at least three years of postgraduate experience. Applicants should have a strong background in molecular biology or protein or carbohydrate biochemistry. Experience in immunology and cellular physiology is desirable. Send a current curriculum vitae, bibliography, a description of research experience, and three letters of recommendation to: **Jeffrey L. Platt, M.D., Director of Transplantation Biology, Departments of Surgery, Immunology, and Pediatrics, Mayo Clinic, Medical Sciences Building 2-79, 200 First Street S.W., Rochester, MN 55905. Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.**

**STAFF MICROBIOLOGIST.** Immediate opening in commercializing heavy metal treatment technology. Ph.D. plus zero to three additional years of experience in microbial precipitation of metals or equivalent; work with anaerobes, bioreactor design preferred. U.S. citizenship mandatory. Unusual opportunity to profit from growth of new company; attractive benefits package. Send résumé, salary requirements, and sample of technical writing to: **Biopraxis, P.O. Box 910078, San Diego, CA 92191-0078. FAX: 619-452-2416. Equal Opportunity Employer.**

## POSITIONS OPEN

The Neurosciences Institute (NSI) is an independent, not-for-profit organization at the forefront of research on the brain. Located in La Jolla, it is also the home of the Neurosciences Research Program and serves as an international meeting place for Neuroscientists; Fellows have opportunities to interact with visitors from many institutions worldwide.

## JUNIOR FELLOW IN THEORETICAL NEUROBIOLOGY

Applications are invited for positions as Junior Fellow in theoretical neurobiology. Since 1987, the NSI has had a research program dedicated to developing biologically based, experimentally testable theoretical models of neural systems. Current projects include large-scale simulations of neuronal networks and the analysis of functional interactions among brain areas using modern neuroimaging techniques. Advanced supercomputer facilities are available. Junior Fellows in theoretical neurobiology will be expected to collaborate with Senior Fellows in theoretical neurobiology and will have daily opportunities to interact with Fellows in experimental neurobiology.

Applicants at the postdoctoral level with strong backgrounds in neuroimaging (including MEG, EEG, and fMRI) are sought to collaborate on experimental and theoretical studies of neural correlates of conscious perception (see: *PNAS* 95:3198-3203, 1998). Experience with designing visual and auditory stimulation paradigms and with the statistical analyses of imaging data is especially desirable. Positions are now available. Fellows receive stipends appropriate to their qualifications and experience. Candidates should send a short statement of research interests, a curriculum vitae, and the names of three references to: **Dr. Evan Balaban and Dr. Giulio Tononi, The Neurosciences Institute, 10640 John Jay Hopkins Drive, San Diego, CA 92121.**

## DIRECTOR

## SOUTHERN TECHNOLOGY COUNCIL

The Southern Technology Council (STC), a division of the Southern Growth Policies Board, is seeking a Director to implement the STC mission to strengthen the economy of the region through technology. The STC fosters cooperative initiatives among regional science and technology organizations and functions as a forum for best practices, strategies, policies, and programs. Information about the Council can be obtained from the SGPB website: [www.southern.org](http://www.southern.org). Application information is at website: [www.southern.org/stdir.htm](http://www.southern.org/stdir.htm). Successful candidates will send a letter of interest; a complete résumé, including salary history; the names and contact information for three references; and two recent writing samples, to: **Southern Technology Council Search Committee, P.O. Box 12293, Research Triangle Park, NC 27709.**

## POSTDOCTORAL POSITION MOLECULAR NEUROSCIENCE ALZHEIMER'S DISEASE

A Postdoctoral position is available immediately to study mechanisms of inflammation in Alzheimer's disease and transgenic mouse models of Alzheimer's at the level of gene expression using a combination of molecular (gene cloning) and cell biological (transfection and gene knockout) techniques. A strong background in recombinant DNA techniques is recommended.

Qualified candidates should forward a curriculum vitae and the names of three references to: **Giulio M. Pasinetti, M.D., Ph.D., Director of Neuroinflammation Research Center, Department of Psychiatry, Box 1229, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. We are an Equal Opportunity Employer fostering diversity in the workplace.**

**ASSISTANT SPECIALIST.** Full-time position available in molecular and cell biology, Division of Genetics and Development. Duties are to conduct research on the genetics and molecular biology of the sex determination signal for *Drosophila* somatic and germline cells. Qualifications required include at least a B.A./M.A. with a strong background in molecular biology, eukaryotic genetics, and sex determination, as well as at least three years of practical experience in *Drosophila* molecular genetics. Approximate starting date: December 1, 1998. Salary range from \$33,204 to \$38,028 with full benefits. Send résumé and names of three references by October 31, 1998, to: **Professor Thomas W. Cline, University of California Department of Molecular and Cell Biology, 401 Barker Hall, Berkeley, CA 94720-3204. The University of California is an Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

**BIOMEDICAL/FIELD SERVICE ENGINEER** for a firm in northeast Ohio. Conduct bioengineering research for the design and development of medical diagnostic imaging devices, and other biomedical systems, including Magnetic Resonance Imaging (MRI) probes; radio frequency (RF) coils and gradient coil technologies; RF shields and filters; coil housing; and quadrature, switchable, and phase array probes. This entails analyzing customer requirements, engineering MRI circuits, coils and preamplifiers, and RF resonance circuits; and using network and impedance analyzers, and the oscilloscope. Must have a B.S. in bioengineering, electronics engineering, biomechanics, biophysics, biochemistry, biology, or biomedical engineering. Must have one academic course each (or six months of experience each) in the following areas: biomedical instrumentation; biomechanics; human physiology; and biomedical instrumentation laboratory. Must be conversant with MRI circuit, coil, and preamplifier design; RF resonance circuit design; network and impedance analyzers; and oscilloscope. This may be evidenced by academic letter(s) of reference and/or employer testimonial(s). 40 hours per week, 8:00 am to 5:00 pm, \$58,000 per year. *Must have proof of legal authority to work indefinitely in the United States.* Send résumé, cover letter, and academic transcript in duplicate (no calls) to: **ES Sp Prgrms, REF# 3910D, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

**RESEARCH ASSOCIATE AND POSTDOCTORAL TRAINING** opportunities are periodically available with the College of Biological Sciences at the University of Minnesota. Positions may be available in the Departments of Biochemistry; Ecology, Evolution, and Behavior; Plant Biology; and Genetics and Cell Biology. Positions may also be available in the following research programs: the Biological Process Technology Institute, the Lake Itasca Forestry and Biological Station, and the Plant Molecular Genetics Institute. The Research Associate positions are for independent research. To be considered, applicants must hold a Ph.D. degree or foreign equivalent and at least two years of postdoctoral experience. Applicants are encouraged to secure salary support from an external granting agency. Multiple positions may be available, depending upon space and facilities, availability of funding, as well as faculty research interests. The postdoctoral training positions require a Ph.D. or foreign equivalent and appointments are limited to three years. Applications must indicate which position is of interest and must include a curriculum vitae, a brief statement of research interests and experience, and names, addresses, and telephone numbers of three references. Closing date for applications is August 31, 1999. Direct applications to: **Administrator, (department name), College of Biological Sciences, 123 Snyder Hall, 1475 Gortner Avenue, St. Paul, MN 55108. Equal Opportunity Educator and Employer.**

**POSTDOCTORAL POSITIONS.** To study regulation of gene expression during fat synthesis and adipocyte differentiation. Research includes (1) characterizing and cloning nuclear factors that interact with hormone response elements for lipogenic enzyme genes and (2) studying mode of action of an inhibitor of adipogenesis and its down-regulation during adipocyte differentiation. Send curriculum vitae and names of references to: **Dr. Hei Sook Sul, Department of Nutritional Sciences, University of California Berkeley, Berkeley, CA 94720-3104. E-mail: [hsul@nature.berkeley.edu](mailto:hsul@nature.berkeley.edu). The University of California is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** available to study retinoid regulation of HIV-1 replication in macrophages. The project focuses on the role of chromatin as a repressor of virus transcription. Candidates with experience in molecular biology or virology should apply by sending their curriculum vitae and the names of three references, including telephone numbers and e-mail addresses to: **Dr. Gregory Vigiñlian, Department of Microbiology, Boston University School of Medicine, 715 Albany Street, Boston, MA 02118. E-mail: [gvgiglian@bu.edu](mailto:gvgiglian@bu.edu). Equal Opportunity/Affirmative Action Employer.**

**RESEARCH ASSOCIATE** position is available immediately at the Center for Controlled Chemical Delivery, University of Utah. Candidates should have experience and knowledge in gene delivery, therapy, and biology techniques. Salary commensurate with experience. Send curriculum vitae via FAX: 801-581-7848; e-mail: [rbruns@pharm.utah.edu](mailto:rbruns@pharm.utah.edu).



**U.S. Department of Agriculture (USDA)  
Agricultural Research Service (ARS)  
RESEARCH LEADER/ BIOLOGIST**

**National Center for Cool and Cold Water Aquaculture**

USDA Agricultural Research Service is seeking a Supervisory Research Biologist with a background in aquaculture to be Research Leader of the National Center for Cool and Cold Water Aquaculture in Leetown, West Virginia. This unique National facility is co-located with the Leetown Science Center of the U.S. Geological Survey. The successful candidate will be responsible for conducting and administering basic and applied research that meets the needs of the Center's Mission to support and enhance the Nation's cool and cold water aquaculture production. The incumbent will also serve as Research Program Representative during the design and construction of the Center with a program of applied genetics and breeding, fish health, physiology and nutrition culture and production management, aquaculture engineering, and product quality of cool and cold water species including, but not limited to, rainbow trout, Arctic Char, salmon, and hybrid striped bass. Experience in leading a diverse program related to aquaculture production, protection, and breeding is preferred. A Ph.D. is desirable and research qualifications are determinant in the salary range of GS-14: \$66,138 to \$85,928; GS-15: \$77,798 to \$90,767.

*Candidate must be a U.S. citizen.* For additional information on the position contact **Wilda Martinez** at **215-233-6593** or email at **wmartinez@ars.usda.gov**. Applicants must review the vacancy announcement prior to application submittal. See Website: **www.ars.usda.gov/afm/hrd/resjobs**. For application information/instructions contact **Maryanne Cage** at **304-725-3451, Extension 332**.

**Applications must be postmarked by October 15, 1998.**

*USDA/ARS is an Equal Opportunity Employer.  
Women and minorities are encouraged to apply.*

**TWO ENDOWED CHAIRS in SIGNAL TRANSDUCTION  
JUNIOR AND SENIOR FACULTY**

Applications for two tenure track positions are invited from outstanding Ph.D. or M.D. scientists whose research focuses on mechanisms of signal generation and transduction in normal and malignant cells.

The senior investigator, at the level of **associate or full professor**, will be a nationally recognized leader in the field and will occupy the Cowan-Blum Chair in Cancer Research. This person will play a leadership role in the expansion of this area within the Cancer Center and University communities.

The second appointee, at the level of **assistant professor**, will occupy the Pardee-Gerstatter Chair in Cancer Research. This individual will be an exceptional young scientist whose predoctoral and postdoctoral accomplishments show promise for an outstanding career in cancer research. Each position will have a primary appointment in an appropriate basic science department of CWRU School of Medicine.

Please send a Curriculum Vitae, a brief research statement, and the names of three references to either:

Ed Stavnezer, Ph.D. or Dennis J. Templeton, M.D./Ph.D.  
Co-Chairs, Cancer Center Search Committee  
c/o Ireland Cancer Center, Wearn 152  
Case Western Reserve University  
10900 Euclid Avenue  
Cleveland, Ohio 44106-5065  
*E-Mail* [exs44@po.cwru.edu](mailto:exs44@po.cwru.edu) or [djt2@po.cwru.edu](mailto:djt2@po.cwru.edu)



**CASE WESTERN  
RESERVE  
UNIVERSITY | IRELAND  
CANCER  
CENTER**



CWRU is an AA/EEO/ADA employer and encourages applications from women and minorities.

## **The University of Southern California**

### **Center for Molecular Biology and Center for Computational and Experimental Genomics**

The University of Southern California announces major, coordinated growth initiatives in the areas of Molecular and Cellular Biology, Molecular Neurobiology, and Genomics. Fifteen new faculty will be hired in the areas listed below within the next five years:

#### **Molecular and Cellular Biology**

Four new faculty are being recruited to begin on January 1999 - September 1999; two at the Associate or Full Professor levels and two at the Assistant Professor level. Additional hiring is anticipated for subsequent years. Cluster hires are anticipated in areas relating to: (i) Molecular Developmental Biology; (ii) Regulation of DNA and RNA Synthesis; (iii) Recombination and Repair; and (iv) Molecular Biology of Aging. Please respond with line ATTN: MCB.

#### **Molecular Neurobiology**

Two molecular neurobiologists (one Professor/Associate Professor and one Assistant Professor) are sought. Scientists with interests in the field of receptor biology, including the regulation of genes controlling synaptic plasticity, are preferred. Successful applicants will have opportunities to interact strongly with our multidisciplinary NIBS Program (Program in Neural, Informational, and Behavioral Sciences), comprising 80 faculty who investigate mechanism of learning at the molecular, cellular system, and computational levels. Please respond with line ATTN: MNB.

#### **Computational and Experimental Genomics**

The Center for Computational and Experimental Genomics develops novel experimental and computational technologies applicable to important biological problems. Three new faculty appointments at ranks commensurate with qualifications will be made within the Departments of Biological Sciences and/or the Computational Mathematics and Statistics section, Mathematics Department. Teaching in the appropriate departments is expected. The specific research fields should fall within the broad areas of new genome technologies, functional genomics, computational and statistical analysis, and genetic diversity. Please respond with line ATTN: CEG.

Qualified applicants should send a CV, brief statement of research interests, and arrange for recommendation letters from three references to be sent to: Program in Molecular Biology, University of Southern California, SHS 172, mc 1340, University Park, Los Angeles, CA. 90089-1340, ATTN: [MCB or MNB or CEG]. USC is an equal opportunity employer.



## POSITIONS OPEN

**DISTINGUISHED POSTDOCTORAL FELLOWSHIPS** in biomedical engineering. Johns Hopkins University Biomedical Engineering Department invites applications for the Distinguished Postdoctoral Fellowships. This program is funded by the Whitaker Foundation. It aims to promote an interdisciplinary approach to the study of complex biomedical systems, and provide the very best of the recently graduated Ph.D.'s an opportunity to perform independent research in a supportive environment. Each recipient will be sponsored by two faculty from any of the following areas of concentration in biomedical engineering: biomedical imaging, biomaterials, cardiovascular systems, molecular and cellular systems, sensors and instrumentation, systems and computational neuroscience, tissue engineering, and theoretical and computational biology.

Salary of the Fellows will be \$30,000 per year, with additional funds to cover health insurance. The duration of the Fellowship is two years. Interested applicants should submit a curriculum vitae, two letters of reference, and a two-page description of their research interests and previous work to: **Dr. Murray Sachs, Director, Department of Biomedical Engineering, 720 Rutland Avenue, Baltimore, MD 21205.** Deadline for receipt of application is December 15, 1998.

For more information, see website: <http://www.jhu.edu/postdoc>. The Johns Hopkins University is an Equal Opportunity/Affirmative Action Institution.

### POSTDOCTORAL RESEARCH ASSOCIATE

The USDA, Agricultural Research Service, Clay Center, Nebraska, seeks applications for a two-year postdoctoral research position in the Reproduction Research Unit. We seek individuals with broad background in reproductive physiology who have demonstrated research expertise in cellular and molecular biology and/or protein chemistry. The individual would use comparative mapping and molecular biology techniques to study the pig genome in search for genes influencing economically important traits such as ovulation rate and uterine capacity. In addition, gene expression studies will be conducted to examine uterine function in swine. Annual salary is \$38,593 and candidates must have a Ph.D. degree. Send curriculum vitae and names of three references to: **Dr. Ronald K. Christenson, Research Leader, USDA, ARS, U.S. Meat Animal Research Center, P.O. Box 166, Clay Center, NE 68933-0166.** Telephone: 402-762-4192; e-mail: [christenson@email.marc.usda.gov](mailto:christenson@email.marc.usda.gov). USDA, ARS is an Equal Opportunity Employer; women and minorities are encouraged to apply.

### POSTDOCTORAL POSITION ELECTROPHYSIOLOGY

A NIH-funded Postdoctoral position is available immediately to study the electrophysiology of low voltage activated calcium currents in atrial cells. Research areas include the molecular biology and subunit composition of the atrial channel, its regulation by growth factors, and its single channel and macroscopic current properties. Candidates should be highly motivated and must have an earned doctoral degree. Knowledge of patch clamp is required and familiarity with basic molecular biological techniques preferred. A curriculum vitae, short description of research experience, and names, addresses, and telephone numbers of three references should be sent to: **Philip M. Best, Ph.D., Department of Molecular and Integrative Physiology, University of Illinois, 524 Burrill Hall, MC-114, 407 South Goodwin Avenue, Urbana, IL 61801.** E-mail: [p-best@uiuc.edu](mailto:p-best@uiuc.edu); FAX: 217-333-1133.

**POSTDOCTORAL POSITIONS** available to study the biochemistry and physiology of two novel environmentally significant processes, dissimilatory Fe(III) reduction (*Nature* 395:65-67), and microbial humics reduction (*Nature* 382:445-448). Please send curriculum vitae and names of three references to: **Dr. Derek Lovley, Department of Microbiology, University of Massachusetts, Amherst, MA 01003.** E-mail: [dlovley@microbio.umass.edu](mailto:dlovley@microbio.umass.edu). University of Massachusetts is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** to study the molecular regulation of extracellular matrix in glaucoma. Applicants must have a Ph.D. Send curriculum vitae and three letters of recommendation to: **James D. Lindsey, Ph.D., Glaucoma Center/0946, University of California San Diego, La Jolla, CA 92093.** E-mail: [lindsey@eyecenter.ucsd.edu](mailto:lindsey@eyecenter.ucsd.edu). The University of California is an Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS AVAILABLE AT THE ROBERT C. BYRD HEALTH SCIENCE CENTER

Several funded Postdoctoral positions available immediately in the following fields and laboratories:

Development of synaptic circuits in rodent somatosensory cortex: **Aric Agmon, Ph.D., Department of Anatomy, Telephone: 304-293-0602; e-mail: [aagmon@wvu.edu](mailto:aagmon@wvu.edu).**

Bioenergetics of the cytochrome bc1 complex: **Diana Beattie, Ph.D., Department of Biochemistry, Telephone: 304-293-7522; e-mail: [dbeattie@wvuhscl.hsc.wvu.edu](mailto:dbeattie@wvuhscl.hsc.wvu.edu).**

The role of neuropeptides and other neuromodulators in asthma pathogenesis: **Richard Dey, Ph.D., Department of Anatomy, Telephone: 304-293-5979; e-mail: [rdey@wvu.edu](mailto:rdey@wvu.edu).**

Regulation of estrogen-responsive genes: **Marilyn Evans, Ph.D., Department of Biochemistry, Telephone: 304-293-7766; e-mail: [mevans@wvu.edu](mailto:mevans@wvu.edu).**

Regulation of expression of genes involved in fatty acid biosynthesis: **Brad Hillgartner, Ph.D., Department of Biochemistry, Telephone: 304-293-7751; e-mail: [bhillgar@wvu.edu](mailto:bhillgar@wvu.edu).**

The Robert C. Byrd Health Science Center is affiliated with West Virginia University, the flagship institution of higher education in West Virginia, and with the Ruby Memorial Hospital; it is also closely linked with the adjacent National Institute for Occupational Safety and Health laboratory. Researchers have access to state-of-the-art core facilities for confocal and electron microscopy, image processing, transgenic animals, and recombinant DNA. Morgantown is a pleasantly situated college town, within convenient driving distance from Pittsburgh, Pennsylvania, and was recently voted "the best small city in the eastern United States." To apply or for further information, applicants should contact directly the Principal Investigator of their choice, at the appropriate department: **The West Virginia University Health Science Center, Morgantown, WV 26506 USA.**

### POSTDOCTORAL POSITION IN NEUROBIOLOGY OF LEARNING AND MEMORY

Postdoctoral position available immediately to study the cellular mechanisms of LTP of synapses of *Aplysia californica*, and the role of LTP in classical conditioning in *Aplysia*. The successful applicant will join a laboratory in UCLA's new Gonda (Goldschneid) Neuroscience and Genetics Research Center. Candidates must have a Ph.D. degree. They must also possess prior experience with intracellular or whole-cell electrophysiology, and have a strong intellectual interest in learning and memory.

Interested applicants should send a curriculum vitae and three letters of reference to:

**David L. Glanzman, Ph.D.**  
Departments of Physiological Science and  
Neurobiology  
2859 Slichter Hall  
University of California, Los Angeles  
Los Angeles, CA 90095-1568  
Telephone: 310-206-9972  
FAX: 310-825-6616  
E-mail: [dglanzman@physci.ucla.edu](mailto:dglanzman@physci.ucla.edu)

**POSTDOCTORAL POSITION** available to study the role of the transcription factor HNF3beta in pancreatic development and diabetes. This project involves the generation and analysis of Cre transgenic mice that will allow for deletion of the HNF3beta (loxP flanked) gene at various stages of development. Ph.D. in biochemistry, molecular biology, or related field required. Please send curriculum vitae and names of three references to: **Klaus H. Kaestner, Ph.D., Department of Genetics, 564 CRB, University of Pennsylvania Medical School, Philadelphia, PA 19104-6145.** E-mail: [kaestner@mail.med.upenn.edu](mailto:kaestner@mail.med.upenn.edu). Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** available to study the molecular basis of ion channel function. A combination of molecular biology, electrophysiology, and biochemistry will be used to explore allosteric conformational changes in ligand-gated ion channels. For more information, visit our website: [www.swmed.edu/home\\_pages/gordon](http://www.swmed.edu/home_pages/gordon). Please FAX curriculum vitae and three reference letters to: **Dr. Sharona Gordon, University of Texas Southwestern Medical Center, FAX: 214-648-8040.** UT Southwestern is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH IN IMMUNOLOGY AND MICROBIOLOGY AT EMORY

The Department of Microbiology and Immunology at Emory University solicits applications from NIH-eligible **POSTDOCTORAL RESEARCH SCIENTISTS** for the Postdoctoral Research in Immunology and Microbiology at Emory (PRIME) Postdoctoral Fellowship Program. This program provides stipends of up to \$35,000 annually to applicants with outstanding potential for scientific research careers who completed their doctorates after June 1, 1997.

Please refer to our departmental website: [www.emory.edu/MICROBIO](http://www.emory.edu/MICROBIO) for details about this fellowship and information about the faculty's research programs.

We will begin reviewing applications in November 1998 for appointments beginning in 1999. To apply, send a current curriculum vitae, copies of three publications, a statement of career objectives, and three letters of recommendation to: **PRIME Fellowship Committee, Microbiology and Immunology, Emory University, Atlanta, GA 30322.**

Emory University is an Equal Opportunity/Affirmative Action Employer and does not discriminate on the basis of race, color, religion, sex, sexual orientation, national origin, age, disability, or veteran status.

### POSTDOCTORAL POSITION UNIVERSITY OF KENTUCKY COLLEGE OF PHARMACY AT LEXINGTON

NIH-funded Postdoctoral position available immediately for a highly motivated individual to join a drug development team consisting of Medicinal Chemists, Neuropharmacologists, and Behavioral Pharmacologist who are developing novel ligands with selectivity for specific nicotinic receptor subtypes in the central nervous system. A Ph.D. earned in biology, pharmacology, biochemistry, or a related field is required. Expertise in neuropharmacology would be an advantage. The College of Pharmacy provides a fruitful research environment that will expose the appointee to all aspects of the drug development process, including design, discovery, evaluation, and delivery, as well as collaboration throughout the medical center. Send curriculum vitae and the names of three references to: **Dr. Linda P. Dwoskin at the College of Pharmacy, University of Kentucky, 907 Rose Street, Lexington, KY 40536-0082.** Telephone: 606-257-4743; FAX: 606-257-7564; e-mail: [ldwoskin@pop.uky.edu](mailto:ldwoskin@pop.uky.edu). UK is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS.** Two Postdoctoral positions will be available in the winter and spring of 1998-99 to participate in studies of the molecular bases of bacterial cell division and the bacterial cell cycle.

(1) Biochemical studies of proteins involved in bacterial division site placement. The work will involve studies of the *in vitro* and *in vivo* interactions of proteins involved in division site placement (**Rothfield and Zhao, Cell** 84: 183-186, 1996), using molecular biological and biochemical approaches. There will be an opportunity, if desired, to become involved in studies of the three-dimensional structures of protein domains involved in this process. (2) Interactions of the *E. coli* chromosomal origin of replication with the cytoplasmic membrane. The work will involve a combination of molecular biology, membrane fractionation, and *in vitro* DNA-binding studies, with emphasis on proteins involved in chromosome sequestration and in replication initiation. Send curriculum vitae, brief description of prior research experience, and the names of several references to: **Dr. L. Rothfield, University of Connecticut Health Center, Farmington, CT 06032.**

Crystallography and computational structural biology. **POSTDOCTORAL POSITIONS** are available exclusively in the laboratory of **Michael Chapman**, or jointly with **Tim Cross**. Research opportunities include the determination of interatomic force fields from crystallographic data, extension of direct methods to proteins, and joint analysis of NMR and crystallographic data. Applicants should have experience in computer programming and either X-ray crystallography, NMR, EM, or molecular mechanics. Applications including three references should be sent to: **M. S. Chapman, Institute of Molecular Biophysics, Florida State University, FL 32306-4380.** E-mail: [chapman@sb.fsu.edu](mailto:chapman@sb.fsu.edu). An Equal Opportunity/Affirmative Action Employer.

## FACULTY POSITION MOLECULAR CARDIOLOGY PROGRAM

The Molecular Cardiology Program at the University of Chicago invites applications for a tenure-track position at the Assistant or Associate Professor level. The successful candidate has an M.D. and/or Ph.D. with research experience in the areas of molecular and cellular biology, developmental biology and/or human and mouse genetics. Applicants should submit a curriculum vitae, summary of research accomplishments, and three letters of recommendation to: **Jeffrey M. Leiden, M.D., Ph.D., Molecular Cardiology Search Committee, The University of Chicago, 5841 S. Maryland, MC 6080, Room B608, Chicago, IL 60637.**



**THE UNIVERSITY  
OF CHICAGO**

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## GLOBAL OPPORTUNITIES



## Principal Research Scientist

*The people at the Australian Institute of Marine Science have a mission to generate the knowledge to support the sustainable development and protection of the marine environment through innovative world class scientific and technological research. Here is the chance to be part of that team.*

## Biotechnology R&D Leader

### Job No 165

The successful candidate will lead an expert multidisciplinary team in the Bioproducts Project. The project has a large and diverse collection of marine macro- and micro-organisms, as well as expertise in assay development and screening, marine microbiology, marine natural products chemistry, marine biology and an emerging skills base in molecular biology. Several current projects are focussing upon products with significant commercial promise. Institutional infrastructure available to the project include specialised research vessels and laboratories.

The successful candidate will be an inspiring R&D leader, with the ambition and drive to evolve the Project into a fully commercial R&D Centre. They will be a strategic planner with biotechnological, pharmaceutical or agricultural experience and should have research experience in at least one of the disciplines currently present in the Bioproducts project. Extensive experience in multi-disciplinary research and a demonstrated ability to manage complex goal-oriented projects will be essential. Strong advocacy of the Project's capabilities, innovations and intellectual property will be required in scientific fora, when raising research funds and when managing commercialisation pathways and various corporate relationships within both the private and public sector.

The position will be based at the Institute's facility in Townsville, North Queensland, Australia, and is offered for a fixed term of three years, at a salary within the range of A\$74,459 to A\$83,221 (determined by qualifications and experience).

**Enquiries:** Dr D Williams 61 7 4753 4282.

**How to find out more:** Request a full application kit which details responsibilities of the position and the selection criteria by phone 61 7 4753 4210, (24hrs): fax 61 7 4772 5852 or email [r.mills@aims.gov.au](mailto:r.mills@aims.gov.au) and quote the relevant job number, or contact our web page <http://www.aims.gov.au>

**Applications for this position close 9 October 1998.**



**AUSTRALIAN INSTITUTE  
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Gesellschaft für  
Biotechnologische  
Forschung mbH  
Braunschweig

The Gesellschaft für Biotechnologische Forschung mbH — a Helmholtz Center — National Research Institute for Biotechnological Research, which is supported by the Federal Government and the State of Lower Saxony, invites applications for a **Postdoctoral Position (Bacterial Pathogenesis)**

in the Division of Microbiology, Department of Microbial Pathogenesis and Vaccine Research. The research focuses on elucidation of the role of streptococcal and pneumococcal pathogenicity factors in *in vitro* and *in vivo* infection models.

Ph.D. in microbiology, cell biology, or a related medical field, with broad experience in microbiological and cell culture techniques as well as in *in vitro* and *in vivo* infection models, is essential. Some experience in mucosal immunity and molecular biology would be advantageous.

The position is initially for three years and is available immediately. The salary will be at the appropriate civil service level.

*Women candidates are especially encouraged to apply.*

Complete applications with names of three references should be sent to GBF, **Personal Department, Mascheroder Weg 1, D-38124 Braunschweig, Germany.** Please quote vacancy no. 47/98. Informal inquiries may be directed to Prof. G. S. Chhatwal, Telephone No. +49-5 31-3 91-58 60; Fax No. +49-5 31-3 91-58 58.

## GMD-German National Research Center for Information Technology



### SEVERAL SCIENTIFIC POSITIONS AT GMD-SCAI

At the Institute for Algorithms and Scientific Computing (SCAI) of GMD-German National Research Center for Information Technology in Sankt Augustin near Bonn, Germany, we are carrying out several exciting bioinformatics projects, most of them together with the pharmaceutical industry. In a group of about 15 scientists, we are developing methods for the identification of protein targets for disease therapy, for molecular docking and structure-based drug design, and for protein sequence analysis and protein structure prediction. Detailed information on our work and a possibility to exercise our software is offered at: <http://www.gmd.de/SCA/area-bioinf.html>.

We are looking for highly skilled and optimally motivated people to join our group and work on:

- finding target proteins for disease therapy, based on sequence and gene expression data
- homology-based protein modeling and 3D protein structure prediction
- multiple alignment of protein sequences and reconstruction of evolutionary trees
- bimolecular docking
- design and scoring of combinatorial libraries
- structural superposition of ligand molecules

In addition, we have several project positions available for scientists with a doctoral degree as well as for Ph.D. students.

We are looking for people with scientific backgrounds in computer science, biology, or chemistry, with significant computing expertise and experience, especially on Unix platforms, and with interest and—preferably—knowledge and experience in bioinformatics and/or molecular modeling.

We offer the positions for 2-3 years; the salary is determined by the German public service salary scale.

*GMD is an Equal Opportunity Employer.*

Information can be obtained from the following address: **Prof. Dr. Thomas Lengauer, Ph.D., GMD-SCAI, Schloss Birlinghoven, 53754 St. Augustin, Germany. Telephone: +49 2241-14 2777, Fax: +49 2241-14 2656, E-mail: [lengauer@gmd.de](mailto:lengauer@gmd.de), website: <http://www.gmd/SCAI>.**

## POSITIONS OPEN

### POSTDOCTORAL FELLOW

A Postdoctoral position is available immediately to study the mechanism of action of paclitaxel and other agents on prostate cancer cells. Emphasis is being placed on defining the components of pathways involved in the control of cell cycle checkpoints and apoptosis. Applicants should have experience in cellular/molecular biology and/or biochemistry. Applicants must also be eligible for NIH funding. Send curriculum vitae and three names of references to:

**Dr. Kenneth Pienta**  
University of Michigan  
Comprehensive Cancer Center  
Room 7303  
1500 East Medical Center Drive  
Ann Arbor, MI 48109-0946

### POSTDOCTORAL POSITION

A Postdoctoral position is available to study the structures, metal ion binding, magnetic alignment, and dynamics of aptamer, telomere, and damaged DNAs in NIH/ACS-funded studies. We have a Varian Unityplus 400 with 5 and 8 mm pfg probes and a Varian Inova 500, three-channel spectrometer with pfg 5 and 8 mm probes. The group has extensive computational support including IBM and SUN workstations. Please send curriculum vitae and three letters of recommendation to:

**Philip H. Bolton**  
Chemistry Department  
Wesleyan University  
Middletown, CT 06459  
E-mail: pbolton@wesleyan.edu

### POSTDOCTORAL POSITIONS

Two research positions are available in molecular parasitology. Research in parasite proteins and mechanisms involved in the genetic reprogramming of mammalian skeletal muscle cells by the parasitic nematode *Trichinella spiralis* are being investigated. Research experience in molecular and cell biology is preferred. Positions are for two to three years. Send curriculum vitae and names of three references to: **Douglas P. Jasmer, Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, WA 99164-7040. E-mail: djasper@vetmed.wsu.edu. WSU is an Equal Employment Opportunity/Affirmative Action Educator and Employer. Protected groups are encouraged to apply.**

A POSTDOCTORAL POSITION in molecular immunology is available immediately, to participate in the development of recombinant polyclonal antibody libraries for the treatment and diagnosis of cancer and infectious diseases. Background in immunology and experience with recombinant DNA and immunologic methods is required. Some experience with tissue culture, animal work, and/or phage-display technology is desirable. Send, FAX, or e-mail curriculum vitae, and names and telephone numbers of three references to: **Dr. Jacqueline Sharon, Boston University School of Medicine, 715 Albany Street, Room K707, Boston, MA 02118. FAX: 617-638-4085; e-mail: spageau@bu.edu. Boston University is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION is available to study the photosensitizers conjugated with antibody. Candidate should have a Ph.D. or M.D.-Ph.D. degree with a strong background in protein chemistry, cell culture, and animal studies. Previous experience in PDT is not required but will be an asset. This position is for one year with possibility of extension if mutually agreed upon, and pending funds availability. Send curriculum vitae and three names of references to: **Jerzy Jankun, Ph.D., Director of Urology Research Center, Medical College of Ohio, Toledo, OH 43699-0008. E-mail: jerzy@golemxiv.dh.mco.edu; website: http://www.npb.ucdavis.edu/faculty/wilson.html.**

POSTDOCTORAL POSITION available to study fundamental mechanisms in the release of transmitter at synapses. Our laboratory applies the methods of electrophysiology and imaging to isolated retinal neurons in culture. A background in either of these is required and experience with retinal or synaptic physiology is desirable. Send curriculum vitae and the names of three references to: **Dr. Martin Wilson, Section of Neurobiology, Physiology and Behavior, University of California Davis, Davis, CA 94510. E-mail: mcwilson@ucdavis.edu; website: http://www.npb.ucdavis.edu/faculty/wilson.html.**

## POSITIONS OPEN

POSTDOCTORAL POSITIONS are available at the University of Colorado Health Sciences Center (UCHSC), Center for Human Nutrition. This is an NIH-funded interdisciplinary program with mentors from the Departments of Pediatrics, Medicine, Physiology, Epidemiology, and Exercise Science. Areas of research include macro- and micronutrient metabolism, obesity and diabetes, nutrient regulation of gene expression, nutrition and cancers, sympathetic nervous system and aging, lactation and milk secretion, and antioxidants in liver disease. Applicants should have completed Ph.D. or M.D. training and have a strong interest in pursuing careers in nutrition or nutrition-related disciplines. U.S. citizenship or permanent residency is required. Interested applicants should send a curriculum vitae, a brief summary of research experience and interests, and the names of three references to: **Michael Hambidge, M.D., University of Colorado Health Sciences Center, 4200 East Ninth Avenue, C225, Denver, CO 80262. UCHSC is an Equal Opportunity/Affirmative Action Employer.**

Structure/function NIH POSTDOCTORAL POSITION (competitive salary) on protein/DNA for one year with renewal option based on performance. See website: <http://green.la.asu.edu/chromatin/>. At the interface of molecular biology, biochemistry, surface science, and physics, this demanding research involves functional assays coupled with atomic force microscopy of chromatin. Requires Ph.D. with no more than seven years of postdoctoral experience in molecular biology/biochemistry. Send curriculum vitae, publication list, and three reference letters to: **Dr. Sanford H. Leuba, NIH, NCI, LRBGE, 41/C615, 41 Library Drive, MSC 5055, Bethesda, MD 20892-5055. Telephone: 301-496-7528; FAX: 301-496-4951; e-mail: leuba@nih.gov. Equal Opportunity Employer.**

POSTDOCTORAL POSITION. A position is immediately available in the Immunotherapy Program at the Medical College of Wisconsin Cancer Center. The selected person will initiate new approaches in the immunotherapy of breast cancer with the possibility of such studies advancing from laboratory experiments to clinical trials in the context of the Lymphocyte Propagation Laboratory. The position is for three years and offers a competitive salary based on the candidate's qualifications. A background in immunology and cell and molecular biology is required. Please send curriculum vitae, cover letter, and two references to: **Dr. William Burns, Medical College of Wisconsin, 8701 Watertown Plank Road, MPRC Building, Room 6033, Milwaukee, WI 53226.**

### POSTDOCTORAL FELLOWS CARDIAC GENE TRANSFER

Our laboratory uses DNA viral vectors for studies on cardiac function *in vitro* and *in vivo*. We seek individuals with demonstrated interests in heart or skeletal muscle, and with expertise in the molecular, biochemical, biophysical, or physiological sciences, to join our research group. Applicants should send (1) one-page summary of research accomplishments and career goals, (2) curriculum vitae, and (3) names of three references to: **Dr. Joseph M. Metzger, Department of Physiology, 7730 Medical Science II, University of Michigan, Ann Arbor, MI 48109-0622.**

### POSTDOCTORAL RESEARCH POSITION

Available in the Department of Pediatrics, Case Western Reserve University (CWRU) School of Medicine, Cleveland, Ohio to study the molecular immunology of host response to bacterial polysaccharides and glycoconjugates. Experience in tissue culture, immunology, and molecular biology required. Send curriculum vitae and references to: **John Schreiber, M.D., Division of Pediatric Infectious Diseases, Rainbow Babies and Children's Hospital, 11100 Euclid Avenue, Cleveland, OH 44106. FAX: 216-844-8362; e-mail: jrs3@po.cwru.edu. CWRU is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS available to study (1) induction of apoptosis and activation of NF- $\kappa$ B by TNF; (2) signal transduction mechanisms and angiogenesis induced by vascular endothelial cell growth factor; (3) proteins that bind the p75 nerve growth factor receptor and initiate changes of neuronal growth and viability. Send curriculum vitae and names of three references to: **Dr. David B. Donner, Walther Oncology Center, Indiana University School of Medicine, 1044 West Walnut Street, Indianapolis, IN 46202. E-mail: ddonner@iupui.edu.**

## POSITIONS OPEN

### POSTDOCTORAL POSITION

University of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School

NIH-funded Postdoctoral positions are available immediately for highly motivated individuals to study the roles of transcription factors in sensorineural development and diseases (e.g., see *Neuron* 11:689; *PNAS* 93:3920; 93:11950; 94:9445; *Dev. Biol.* 197:155). Expertise in molecular biology and/or targeted gene disruption required. We provide fruitful research environment and competitive salary. Send curriculum vitae and three reference names to: **Dr. Mengqing Xiang, Center for Advanced Biotechnology and Medicine, University of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School, 679 Hoes Lane, Piscataway, NJ 08854. E-mail: xiang@mbcl.rutgers.edu.**

### NMR POSTDOCTORAL POSITION FRONTIERS IN RNA STRUCTURE/ FUNCTION

Available in 1999, as member of RNA research team, structure/design, protein interaction. Applicants should have macromolecular NMR experience. Our equipment includes 500 MHz (3-channel, 3-axis gradients) NMR, workstations, software for processing data, and restrained molecular dynamics and molecular modeling. Competitive salary, commensurate with experience. Reply by mail with detailed résumé, date available, statement detailing experience/technical ability in NMR, and three letters of reference sent to: **Dr. Paul F. Agre, Biochemistry, Box 7622, North Carolina State University, Raleigh, NC 27695-7622 USA.**

POSTDOCTORAL POSITIONS (two) in mucosal immunology available October 1998 to study *Salmonella*-delivered vaccines and virus-specific T cell responses and induction of tolerance in gastrointestinal and respiratory tracts. Opportunity to work with a committed group of Investigators studying human and animal infectious diseases. Applicants must have Ph.D., cellular immunology (CTL) experience, and ability to design experiments relevant to T cell stimulation and cytokine assays. Some molecular biology experience is desirable. Send a letter of application, curriculum vitae, and names of three references to: **Dr. David W. Pascual, Veterinary Molecular Biology, Montana State University, Bozeman, MT 59717-3610. FAX: 406-994-4303. ADA/Affirmative Action/Equal Opportunity/Veteran's Preference.**

### POSTDOCTORAL POSITION UNIVERSITY OF CALIFORNIA, LOS ANGELES

Postdoctoral position available to study aspects of HIV assembly and interactions between HIV and the cytoskeleton. M.D. or Ph.D. in biology, biochemistry, or related field required. Preference given to candidates with documented expertise in one or more of the following areas: molecular virology, cell biology, cell motility. Send curriculum vitae with three letters of references to: **Dr. Paul Krogstad, UCLA School of Medicine, Department of Pediatrics, 22-442 MDCC, Los Angeles, CA 90095-1752. University of California, Los Angeles is an Equal Opportunity/Affirmative Action Employer.**

### UNIVERSITY OF PENNSYLVANIA

POSTDOCTORAL POSITION available immediately to study glycoprotein interactions with cellular receptors during herpes simplex virus entry into mammalian cells. The candidate should have a strong background in molecular or cell biology, virology, or biochemistry. Please send curriculum vitae and names of three references with telephone numbers to: **Dr. Gary H. Cohen and Dr. Roselyn J. Eisenberg, Microbiology, School of Dental Medicine, University of Pennsylvania, Philadelphia, PA 19104-6002. An Equal Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE IN MOLECULAR BIOLOGY

Basic science laboratory focused on transport across cell membrane has opening with potential growth toward independence. Candidate should have Ph.D. in the life sciences with expertise in advanced techniques of molecular biology. U.S. citizenship required. Excellent facilities and research environment, affiliation with UCLA School of Medicine. Salary commensurate with experience. Send curriculum vitae to: **Stanley Rubin, M.D., e-mail: sarubin@ucla.edu; FAX: 818-895-9559.**



**CERES, Inc.  
Senior Scientists,  
Research Associates & Assistants**

Ceres is a plant biotechnology company utilizing high-throughput genomic and molecular genetic approaches for crop improvement and plant breeding. We seek highly motivated candidates with practical experience in one of the following areas to join our team of creative scientists:

**Molecular Genetics**, plant gene cloning, gene expression analysis, molecular genetics. **Cell and Tissue Culture/Development**, plant somatic embryogenesis, transformation, and regeneration. **Biochemistry**, any area of plant biochemistry.

Ceres is located in new state-of-the-art facilities overlooking the Malibu coast. We offer competitive salaries, excellent benefits, and equity participation.

Contact:

**HRM, Code 111  
3007 Malibu Canyon Road  
Malibu, CA 90265  
Fax: (310) 317-8998.**

*Ceres is an Equal Opportunity Employer.*

**IMPERIAL COLLEGE OF SCIENCE,  
TECHNOLOGY & MEDICINE**

**NERC Centre for Population Biology  
Postdoctoral Ecologists**

Three postdoctoral ecologists are needed to join CPB's multidisciplinary research team:

**Tropical Ecologist:** theoretical (mathematical) and field experimental skills are required to develop and test metapopulation models of species coexistence, enemy-victim interactions and mutualisms for tropical ecosystems.

**Evolutionary Ecologist:** to join a group studying links between ecological and evolutionary processes using a *Drosophila*-parasitoid model system, focussing on the genetics and community ecology of host defence and parasitoid counter-defence.

**Statistical Ecologist:** skills in time-series analysis are required to test and develop ecological theories using CPB's unique Global Population Dynamics Database, which already contains 5,000 individual population time-series for many species globally.

Applicants should have a PhD and relevant research experience. Two year contracts are offered, with the possibility of renewal. Salary range £15,735-£23,651.

Details: <http://forest.bio.ic.ac.uk/cpb/cpb/cpbintro.html>;  
e-mail: [1.sable@ic.ac.uk](mailto:1.sable@ic.ac.uk); Tel: +44 (0)1344 294475; or write to Centre for Population Biology, Imperial College at Silwood Park, Ascot, Berkshire SL5 7PY, UK.

**Applications to be received by 31st October 1998.**

*The College is striving towards Equal Opportunities*

Bayer is a globally active, research-based company in the fields of chemicals and life-sciences, headquartered in Leverkusen/ Germany. With total annual sales of DM 55 billion and an annual R&D budget of DM 4 billion in 1997, we can offer a very attractive working environment for highly-motivated people. (For more details refer to <http://www.bayer.com>).

In the structural research department of Central R&D, located in Leverkusen, Germany, an entry level job opportunity is available for a scientist in the field of

## Biomolecule Analysis

You will be responsible for DNA-sequencing, capillary electrophoresis and protein analysis. Collaborating with multidisciplinary project teams you will interact closely with molecular biology and medicinal chemistry units. You will have access to the expertise and the adequate state-of-the-art instrumentation of a well-established group of analytical scientists.

As a research scientist with a Ph. D. in chemistry or life science related fields you should have a background in protein chemistry or molecular biology and expertise in structural chemistry of biomolecules. Effective communication skills in German and English and strength in interpersonal relations are required.

For further details please contact

Dr. Wolfgang Kreiss

(E-Mail: [Wolfgang.Kreiss.WK@bayer-ag.de](mailto:Wolfgang.Kreiss.WK@bayer-ag.de)).

If your background and personal experience fits to this profile, please send your complete application quoting ref.-No. 628 to:

Bayer AG, Personalmarketing, Hauptstraße 119  
D-51368 Leverkusen, Germany

**Bayer** 

## POSITIONS OPEN

### RESEARCH OPPORTUNITIES IN CELLULAR AND MOLECULAR IMMUNOLOGY AND PROTEIN CHEMISTRY AT NATIONAL CANCER INSTITUTE

Immediate openings exist for full-time **POSTDOCTORAL FELLOWSHIPS** in the Tumor Immunology Section, Surgery Branch, National Cancer Institute, National Institutes of Health, Bethesda, Maryland, to study the immune response to tumors in humans and in mice.

One project aims to study tumor proteins recognized by immune cells, and requires a strong background in protein purification and molecular biology. For additional positions, we seek candidates with experience in cellular immunology as well as molecular biology. Ongoing projects include the identification of new tumor-associated antigens, the study of immune tolerance to tumor-associated differentiation antigens, and the development of synthetic and recombinant anti-cancer vaccines.

Applications must be postmarked by October 9, 1998. Send cover letter, curriculum vitae, and statement of research interests to:

**Steven A. Rosenberg, M.D., Ph.D.**  
Chief of Surgery  
National Cancer Institute  
Building 10, Room 2B42  
Bethesda, MD 20891-1502  
Telephone: 301-496-4164

*Selections for these positions will be based solely on merit, with no discrimination for nonmerit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization. The NIH is an Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL RESEARCH ASSOCIATE/ASSISTANT POSITION IN COLON CANCER CELL BIOLOGY

Available immediately to conduct research on a novel receptor tyrosine kinase in regulating invasive growth and metastasis of human colon cancers. Project involves characterizing a truncated receptor protein kinase, molecular cloning of the cDNA, gene mutational analysis in cancer tissues, and functional study of the receptor protein in cancer cell lines. Applicants should have Ph.D. and/or M.D. with strong background in one or more of the following areas: cell and molecular biology, biochemistry, and tumor biology. Experience in molecular cloning, gene expression, site-directed mutagenesis, signal transduction, and protein phosphorylation is highly desirable. Send curriculum vitae, names and telephone numbers of three references to: **Dr. M.-H. Wang, Department of Internal Medicine, Wayne State University School of Medicine, Elliman Research Building, Room 2221, 421 East Canfield, Detroit, MI 48201.** *Wayne State University is an Equal Opportunity/Affirmative Action Employer.*

A **POSTDOCTORAL POSITION**, NIH-funded, is available immediately to investigate the mechanism of transcriptional synergy between nuclear receptor HNF4, bZIP protein C/EBP, and coactivators on the apolipoprotein B promoter. HNF4, a liver-enriched factor essential for development, is linked to diabetes, hemophilia, hepatitis, and drug and cholesterol metabolism. Experience in molecular biology or protein biochemistry is required. The highly motivated applicant will join a dynamic group of young scientists. 50 miles east of Los Angeles, Riverside has a historic downtown, affordable housing, and excellent schools. It is close to mountains, desert, and beaches. Please send curriculum vitae and three references to: **Dr. Frances Sladek, Environmental Toxicology Program, University of California, Riverside, CA 92521.** E-mail: frances.sladek@ucr.edu.

### POSTDOCTORAL POSITIONS MOLECULAR BASIS OF CANCER COLUMBIA UNIVERSITY

Positions available to join a research group discovering and characterizing novel genes mediating tumorigenesis, cancer progression and suppression, apoptosis, and cell differentiation. Training in molecular biology, emphasizing gene cloning, transgenic mice, protein analysis and purification, or protein-protein interactions. Send curriculum vitae and three references to: **Dr. Paul B. Fisher, Columbia University, College of Physicians and Surgeons, BB 15-501, 630 West 168th Street, New York, NY 10032.** FAX: 212-305-8177; e-mail: pbf1@columbia.edu. *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS IN COMPUTATIONAL CHEMISTRY

Sandia National Laboratories in Livermore, California has an ongoing program in computational chemistry that has immediate openings for Postdoctoral Researchers. Areas of research include the modeling of proteins and small molecules using a variety of computational methods such as docking, molecular dynamics, pharmacophore analysis, and *ab initio* quantum chemistry. We have a mix of methods and software development and applications work. Successful candidates shall have a Ph.D. in chemistry, biophysics, or a related field, and proven experience in software development or application of computational chemistry methodologies. Knowledge of C, C++, or JAVA is highly desirable. Experience in one of the following modeling areas would be of particular interest: protein simulations, small molecule/macromolecule interactions, high accuracy *ab initio* methods, or information analysis. The applicant must also have good communication skills, both oral and written. The research group has extensive computing resources including high-end graphics workstations, high-performance clusters of multiprocessor PCs, SMP workstations, as well as massively parallel machines including an Intel Paragon and a teraflop MPP. We feel that this position will provide especially exciting prospects for candidates with a strong background in computational methods and are interested in developing innovative solutions to applied problems. Salary and fringe benefits are extremely competitive. *U.S. citizenship is normally required.* Candidates should send a curriculum vitae, statement of research expertise and interests, and uncertified copies of college transcripts to: **Sandia National Laboratories, c/o Anna Isham, MS 9111, Human Resources Department CA0054, P.O. Box 969, Livermore, CA 94551-0969.** *Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION UNIVERSITY OF VERMONT

The University of Vermont College of Medicine and Fletcher Allen Health Care, Department of Medicine announce a Postdoctoral Research position in the molecular and electrophysiological study of renal epithelial and vascular ion channels. Successful candidate should hold a Ph.D. or M.D. and have a strong background in cellular electrophysiology. Experience with patch clamp and molecular biological techniques including tissue culture is highly desirable. Our approach combines patch clamp and confocal imaging with molecular techniques including heterologous expression systems. Please send curriculum vitae and three letters of recommendation to:

**Alan Segal, M.D.**  
Department of Medicine  
Nephrology Unit  
University of Vermont  
318 Burgess  
Burlington, VT 05401  
E-mail: asegal@zoo.uvm.edu

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

### POSTDOCTORAL POSITIONS HEARING AND DEAFNESS RESEARCH

Positions available immediately to study molecular mechanisms of proliferation and differentiation in the cochlear receptor epithelium. Biochemical and molecular biology approaches are taken to study signaling in hair cell regeneration, and the regulation of ion channel expression. Candidates should have a strong background in molecular biology and/or biochemistry. Send curriculum vitae, statement of research experience, and names of three references to: **Dr. J. Carl Oberholtzer, Department of Pathology, University of Pennsylvania School of Medicine, 3620 Hamilton Walk, Philadelphia, PA 19104.** E-mail: oberholt@mail.med.upenn.edu; FAX: 215-573-7738. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL FELLOW

Seeking a highly motivated candidate to study RNA-protein interactions and transcription elongation in HIV-1 promoter. Ph.D. in molecular biology or biochemistry is required. Send curriculum vitae and the names of three references to: **Dr. Tariq M. Rana, Department of Pharmacology, Robert Wood Johnson (Rutgers) Medical School, 675 Hoes Lane, Piscataway, NJ 08854.** E-mail: rana@umdj.edu.

## POSITIONS OPEN

The USDA, Agricultural Research Service, Wheat, Sorghum, and Forage Research Unit, Lincoln, Nebraska, is seeking a **POSTDOCTORAL RESEARCH PLANT PATHOLOGIST**, GS-11/12. (Salary range, which is commensurate with experience, is \$38,593 to \$60,135.) This Excepted Service appointment will be for two years. The incumbent is responsible for fundamental and complex studies on the genetic control of virus disease pathogenesis and resistance in wheat. The primary responsibilities are to define the genetic interactions of wheat and viruses infecting wheat, and will participate in the development and testing of novel gene constructs used to transform wheat with the aim of developing improved resistance to viral infection. A Ph.D. in traditional plant pathology/molecular virology/plant molecular biology is required and should have been awarded within the last four years. *U.S. citizenship is required unless the candidate is a citizen of a country that has a mutual defense treaty with the United States.* Interested applicants should submit a letter of application, résumé, and a curriculum vitae to: **Dr. Drake Stenger, USDA/ARS, Wheat, Sorghum, and Forage Research Unit, 344 Keim Hall, University of Nebraska, Lincoln, NE 68583.** Refer to vacancy announcement number RA-98-93L in all communications. This position will remain open until filled. *USDA/ARS is an Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION IN GENE THERAPY

**Dr. Ronald Nagel** (hematology) and **Dr. Geoffrey Childs** (Molecular Genetics Department) have been given support from Cooley's Anemia International, Inc. for a Postdoctoral Fellow to use chimeric oligonucleotides to correct single nucleotide mutations in the beta-globin gene, ultimately leading to gene therapy protocols for Cooley's Anemia patients. Applicants should have experience in molecular biology and cell culture techniques. Candidates with experience working with hematopoietic stem cells are also desired. Applicants should send a letter along with a complete curriculum vitae and three letters of reference to:

**Dr. Ronald Nagel**  
Division of Hematology  
Albert Einstein College of Medicine  
Jack and Pearl Resnick Campus  
1300 Morris Park Avenue  
Bronx, NY 10461

*Equal Opportunity Employer.*

### UNIVERSITY OF TORONTO

Postdoctoral position is open immediately to develop methods for chemical and biosynthetic incorporation of labels into membrane proteins. Good basic biochemical and molecular biological skills required as well as a willingness to work in a multidisciplinary environment.

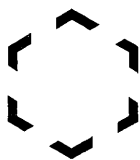
Please send curriculum vitae and three letters of reference to:

**Dr. Andrew Woolley**  
Department of Chemistry  
University of Toronto  
80 St. George Street  
Toronto M5S 3H6 Canada  
Telephone/FAX: 416-978-0675  
E-mail: awoolley@chem.utoronto.ca

### POSTDOCTORAL POSITIONS IN AIDS RESEARCH Ohio State University Medical Center

Available immediately for NIH-funded projects to study AIDS pathogenesis and HIV-1 immunology. Ph.D. and/or M.D. with strong background in molecular biology and/or immunology are encouraged. Send curriculum vitae, references, research interests to: **Kunal Saha, M.D., Ph.D., Children's Hospital Research Foundation, 700 Children's Drive, Columbus, OH 43205.** FAX: 614-722-3273; e-mail: sahak@pediatrics.ohio-state.edu.

NIH-funded **POSTDOCTORAL POSITION** available immediately to investigate signal transduction (*Biophys. J.* 73:1777, 1997), processing (*PNAS, USA* 95: 5039, 1998), and perturbation by electric fields (*Biophys. J.* 74:90) in leukocytes and tumor cells. Send curriculum vitae to: **Dr. H. Petty, Department of Biological Sciences, Wayne State University, Detroit, MI 48202.** *Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at WSU are smoke-free. Wayne State University—people working together to provide quality services.*



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Eidgenössischen  
Technischen  
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Board of the  
Swiss Federal  
Institutes of  
Technology  
BSIT

To succeed the present incumbent, who is due to retire in spring 2000, we are seeking candidates for the position of

## **President of the Federal Institute of Technology, Lausanne (EPFL)**

The federal institutes of technology in Lausanne (EPFL) and Zurich (ETHZ), together with four major federal research institutions, constitute the "domain" of the federal institutes of technology, which is supervised by the "Board of the Swiss Federal Institutes of Technology." The EPFL is dedicated to teaching and research in the fields of engineering sciences and architecture as well as in physics, chemistry, and mathematics. Its complex of modern buildings and technical and scientific facilities is located in the university district of western Lausanne. The EPFL has a professional staff of approximately 150, about 4,500 students, and some 2,500 employees. The two federal institutes enjoy a high degree of legal autonomy, which is associated with correspondingly great responsibility on the part of their management bodies and, in particular, of their respective presidents. For the challenging position of President of the EPFL, we are looking for an outstanding personality with academic experience (preferably with the rank of full professor), a broad scientific background, and leadership skills. Besides a good command of French, German, Italian, and English, we attach special importance to communication skills, visionary thinking, and the courage to put theory into practice. As part of its commitment to Equal Opportunities at the EPFL, the Board of the Swiss Federal Institutes of Technology is particularly interested in receiving applications from women candidates. All applications will be treated confidentially.

Please submit your written application, including a full CV, to **Professor Francis Waldvogel, President of the Board of the Swiss Federal Institutes of Technology, Haldiweg 17, CH-8044 Zürich** (deadline: October 30, 1998).

### **New University of Lisbon Institute of Tropical Medicine and Hygiene Professor of Bacteriology**

The Institute of Hygiene and Tropical Medicine, Lisbon, Portugal, invites applications for Professor or Associated Professor position, to run a new Mycobacteria Unit. The principle objective is to create an actualized and international Unit. Candidates should fulfill the following requisites: to possess a relevant curriculum vitae in the area; experience and interest in clinical bacteriology, including the development of a) updated laboratory diagnostic techniques, b) molecular epidemiology, and c) recent methods for detection of antibiotic resistance.

#### **International Health Professor**

The Institute of Hygiene and Tropical Medicine, Lisbon, Portugal, invites applications for Professor or Associated Professor position, to run an International Health Unit. The principle objective is to create a Unit that should be able to answer to the International Health challenges of today.

Candidates should fulfill the following requisites: a relevant curriculum vitae in Epidemiology, Applied Biostatistics, and Public Health Diagnosis. The interest in Planning and Management of Health Systems, both at national and international level, particularly in tropical regions, are preferential conditions.

The applicants should be fluent in English and preferably have some knowledge of Portuguese or Spanish. Applications must include curriculum vitae, covering letter, and two letters of recommendation from two distinguished fellow scientists and should be submitted to:

**Director, Instituto de Higiene e Medicina Tropical, Rua da Junqueira, no. 96, 1300, Lisbon, Portugal.**

**E-mail: jvcosta@ihmt.unl.pt**

**Fax: +351-1-3626435, until the 16<sup>th</sup> November 1998.**

**Other information:** salaries, contract conditions, and other practical aspects will be given through the above address. Contract term is 5 years, but it may be renewed or lead to a tenure.

### **IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY & MEDICINE Chair in Protein Crystallography/ Structural Biology**

Imperial College aims to be one of the leading institutions in the world for research and education in science, engineering and medicine. Recent expansions and investment in new buildings have provided an enriched biological and biomedical research environment. Applications are therefore invited from candidates of international standing for a new Chair in Protein Crystallography to be established in Imperial College of Science, Technology and Medicine. The Chair provides a unique opportunity to create a world class group to complement existing themes of research in the College in the area of Structural Biology.

The Professor will play a leading role in the College's centre for Structural Biology which brings together an interdisciplinary team of researchers in the Departments of Biochemistry, Physics, Biology, Chemistry and the newly established School of Medicine. The Centre is under the direction of Professor Marin van Heel who has pioneered recent advances in single particle high resolution cryo-electron microscopy.

Present interests of the Centre include the structural basis of protein synthesis, gene expression, membrane proteins and large macromolecular assemblies in the context of problems relating to areas such as infection neurobiology and bioenergetics.

Imperial College is presently constructing a multidisciplinary research building on its South Kensington campus adjacent to its Biochemistry Department and 100 metres from the new Biomedical Science building. The building will house a new centre for gene therapy, a Wellcome funded centre for the molecular basis for infection. Two floors will be devoted to the new Centre for Structural Biology.

In pursuit of the support for this initiative the College is making available substantial funds for equipment and or staff and also intends to appoint a Chair in Bioinformatics.

The College views the Centre for Structural Biology and the activities of the new Professor as a vital part of its initiative in the areas of Biochemistry and Biomedical Sciences which take place not only at South Kensington but at the four other campuses of the enlarged Imperial College School of Medicine. The opportunities for the holder of the post are immense and the College is seeking someone who is a world class leader in this field with an international reputation for research and academic leadership.

The Chair will be available from 1 January 1999.

Any enquiries with regard to this vacancy should be addressed to Professor W A Wakeham, Deputy Rector, Imperial College of Science, Technology and Medicine, Exhibition Road, London SW7 2AZ. Telephone: 0171 594 5005 and e-mail w.wakeham@ic.ac.uk in the first instance.

The closing date for formal applications: 16 October 1998.

*The College is striving towards Equal Opportunities*



## POSITIONS OPEN

The Minimally Invasive Surgery Center at The Cleveland Clinic Foundation is searching for a **SENIOR POSTDOCTORAL FELLOW** to study molecular responses to surgical procedures. Qualified candidates will have a recent Ph.D. or M.D. (two to three years) with experience with modern molecular biology techniques such as Northern, Southern, Western hybridization, PCR, RNase protection assays, and DNA sequencing. Also, experience in cytokine, chemokine, or other inflammation responses is an advantage. The successful candidate will have good oral and written skills in English. Prefer candidates fluent in current computer software such as Microsoft Word, Excel, PowerPoint, graphing software such as Canvas, Kaleidagraph, and image manipulation programs such as NIH Image or Photoshop. Salary to \$35,000, commensurate with experience. Please send curriculum vitae and names of three references to: **Dr. Jeffrey Ponsky, Executive Director, Minimally Invasive Surgery Center, E32-67, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195.**

### POSTDOCTORAL POSITION

We are seeking an individual with extensive experience working in a high-security containment laboratory to perform animal studies with viruses. Candidates should have a Ph.D. in microbiology and extensive experience in molecular biology. The Postdoctoral Fellow will study the molecular pathogenesis of influenza. Interested individuals should contact: **Dr. Yoshihiro Kawaoka, Department of Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison, 2015 Linden Drive West, Madison, WI 53706.**

### POSTDOCTORAL POSITION

Available immediately for Ph.D. or M.S. for studies on immunoglobulin gene repertoire of antibody response and its regulation at the cellular and molecular level. Experience in molecular biology techniques and immunological erudition is desirable. Please send curriculum vitae and letters of reference to: **Jan Cerny, M.D., Ph.D., Department of Microbiology and Immunology, University of Maryland School of Medicine, 655 West Baltimore Street, BRB 13-015, Baltimore, MD 21201.**

**POSTDOCTORAL FELLOW.** Applications are invited for Postdoctoral position(s) in the Department of Gynecology and Obstetrics to pursue research related to endometriosis. Candidates with interest and experience in macrophage biology, lipid peroxidation, cytokines, apoptosis, growth factors, and hormone action should send résumé and three references to: **Dr. Sampath Parthasarathy, Professor and Director of Research, Department of Gynecology and Obstetrics, Emory University School of Medicine, Atlanta, GA 30322.**

*Emory University is an Equal Opportunity Employer.*

### POSTDOCTORAL RESEARCH POSITION

Available immediately with a growth factor/receptor laboratory group to study angiogenesis and the regulation of FGF activity. A strong background in cell and molecular biology is essential. Experience with ECM would be helpful. Send research interests, curriculum vitae, and names of three references to: **Dr. Anne Hanneken, Department of Cell Biology, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037. E-mail: ahanneke@scripps.edu.**

**POSTDOCTORAL POSITION** available immediately to investigate the molecular genetics of pediatric brain cancers. Opportunities in this laboratory include analysis of tumor gene expression in collaboration with the Cancer Genome Anatomy Project (CGAP) and studies of the molecular pathways involved in medulloblastoma formation. Interested applicants with a background in molecular biology/genetics should submit a curriculum vitae and names of three references to: **Greg Riggins, M.D., Ph.D., The Brain Tumor Center at Duke, Box 3156, Duke University Medical Center, Durham, NC 27710. FAX: 919-681-2796; e-mail: riggi003@mc.duke.edu.**

### POSTDOCTORAL POSITION UCLA

Available to study the immunology of transplantation atherosclerosis in a mouse model. Molecular biology and immunology experience required. Send curriculum vitae and names of three references to: **A. Ardehali, CHS 62-232, UCLA Medical Center, 10833 Le Conte Avenue, Los Angeles, CA 90095. E-mail: aardehal@surgery.medsch.ucla.edu.**

## POSITIONS OPEN

### INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

The National Institutes of Health has both! For more information, visit our website which lists an array of clinical and postdoctoral opportunities, including tenure-track positions.

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

*The NIH is an Equal Opportunity Employer.*

### CANCER RESEARCH POSTDOCTORAL POSITIONS

Postdoctoral positions are available to study a putative tumor suppressor gene of breast and ovarian cancers using biochemical, molecular genetic, and cell biology approaches. Experience in mouse and human genetics is highly desirable. Please submit application to:

**Xiangxi (Mike) Xu, Ph.D.**  
Department of Biochemistry  
Emory University School of Medicine  
Atlanta, GA 30322  
Telephone: 404-778-2266  
FAX: 404-778-5016  
E-mail: xxu01@emory.edu

### STANFORD UNIVERSITY SCHOOL OF MEDICINE

Two **POSTDOCTORAL POSITIONS** are available immediately for the highly motivated individuals to study transcriptional control in tumor development. A recent Ph.D. degree with strong background in molecular biology is required. Prior experience in DNA-protein interactions, yeast two-hybrid system, and protein biochemistry is highly desirable. We provide fruitful research environment and competitive salary and fringe benefits. Send curriculum vitae and the names of three references to: **Dr. Z. J. Sun, R135, Department of Surgery and Genetics, Stanford University Medical School, Stanford, CA 94305. E-mail: zsun@leland.stanford.edu.**

Two **NIH-funded POSTDOCTORAL POSITIONS** available immediately to study transcriptional regulation of recombinant alpha and bunya viruses utilizing molecular biological and virological techniques. Strong experience in biochemistry or molecular biology or tissue culture essential. Please contact: **Dr. Raju Ramasamy, Microbiology, Meharry Medical College, Nashville, TN 37208. Telephone: 615-327-6687; FAX: 615-327-6602; e-mail: ramasa25@ccvax.mmc.edu.** Candidates may also send their curriculum vitae and two letters of recommendation to the above address.

A **POSTDOCTORAL POSITION** is immediately available to study the molecular mechanisms of Huntington's disease and polyglutamine repeat neurological disorders. Motivated individuals who have a Ph.D. degree and experience in molecular biology, protein chemistry, or cell biology are encouraged to apply. Please send curriculum vitae and the names of three references to: **Xiao-Jiang Li, Department of Genetics, Emory University, 1462 Clifton Road, Atlanta, GA 30322. E-mail: xiaoli@genetics.emory.edu; FAX: 404-727-3949; website: <http://www.emory.edu/WHSC/MED/GENETICS/Li/xiaoli.html>.**

**POSTDOCTORAL POSITION** at Boston University Medical Center to study renal cancer and renal development by identifying target genes, interacting proteins, and upstream regulators of critical transcription factors. Proficiency in molecular and/or protein techniques required. *U.S. citizen, national, or permanent resident preferred for NIH training grant.* Please send curriculum vitae and names of three references with telephone numbers to: **Dr. Herbert T. Cohen, Boston University Medical Center, E-428, 88 East Newton Street, Boston, MA 02118. E-mail: htcohen@bu.edu.**

**POSTDOCTORAL FELLOWSHIPS** are available in the Pulmonary Division of the University of Michigan for research in the following disciplines: immunology, microbiology, molecular biology, and cell biology. These positions involve basic science research in a well-equipped, highly interactive division of Ph.D., M.D., and D.V.M. Investigators. Please send an e-mail to: **Gary B. Huffnagle, Ph.D., e-mail: ghuff@umich.edu** for detailed information about the projects and Fellowships.

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS AT BETH ISRAEL DEACONESS MEDICAL CENTER/ HARVARD MEDICAL SCHOOL

Two positions available immediately to study molecular mechanisms of the antiangiogenic agents (endostatin, restatin, angiostatin, and Kr5) and biochemical characterization and cloning of novel antiangiogenic proteins from tumor-conditioned media, and their use in preclinical models of renal cancer. Experience in molecular and cellular techniques essential; background in biochemistry strongly preferred. Send curriculum vitae with names of three references to: **Vikas P. Sukhatme, M.D., Ph.D., Chief, Renal Division, Department of Medicine, Dana 517, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Boston, MA 02215. Telephone: 617-667-2105; FAX: 617-667-7843; e-mail: vsukhatm@bidmc.harvard.edu. Affirmative Action/Equal Opportunity Employer.**

### NEUROBIOLOGY

**POSTDOCTORAL POSITIONS** available immediately to study use-dependent modulation of synaptic function. Positions require previous training in neurobiology and experience in patch-clamp recording or calcium imaging. Projects involve interactions between nicotinic and metabotropic synapses in sympathetic ganglia. For more information, see website: [www.neurobio.pitt.edu](http://www.neurobio.pitt.edu). Send curriculum vitae and names of three references to: **Dr. John P. Horn, Department of Neurobiology, E1440 BST, University of Pittsburgh, School of Medicine, Pittsburgh, PA 15261. E-mail: jph4@pitt.edu.** The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** with **Dr. Gerd Pfeifer.** The Department of Biology at City of Hope National Medical Center/Beckman Research Institute has a position available to work on the molecular biology of human lung cancer or in the field of mammalian DNA repair and mutagenesis. A Ph.D. degree and experience in molecular biology techniques (such as cloning, PCR, DNA sequencing, and protein analysis) are required. Interested candidates should send curriculum vitae to: **Dr. Gerd Pfeifer, Biology Beckman Research Institute, 1500 East Duarte Road, Duarte, CA 91010. FAX: 626-358-7703; e-mail: gpfeifer@smtplink.coh.org.** Please reference #14459. *Equal Opportunity Employer.*

**POSTDOCTORAL POSITIONS** in functional MRI of the brain available fall 1998. Applicants may have a Ph.D. in cognitive neuroscience or related field. Ongoing projects study the neurobiological basis of executive functions, language, attention, speech perception, motor control, and memory. Send curriculum vitae, statement of research interests, and three references to: **Dr. J. R. Binder or Dr. S. M. Rao, Department of Neurology, Medical College of Wisconsin, 9200 West Wisconsin Avenue, Milwaukee, WI 53226. E-mail: srao@mcw.edu.** *Equal Opportunity Employer.*

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### FIVE PH.D.-STIPEND AND POSTDOCTORAL POSITIONS IN BIOINFORMATICS Center for Biological Sequence Analysis The Technical University of Denmark

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Applicants should send a short application, a curriculum vitae, a complete list of publications, and a statement of research interests to:

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**POSTDOCTORAL POSITIONS** available to study glucocorticoid-induced expression of the fatty-acid synthase gene in fetal lung and signal transduction mechanisms in surfactant secretion in isolated lung cells. Background in molecular biology and/or protein phosphorylation required. Send curriculum vitae and names of three references to: **Dr. Seamus A. Rooney, Department of Pediatrics, Yale University, P.O. Box 208064, New Haven, CT 06520-8064.**

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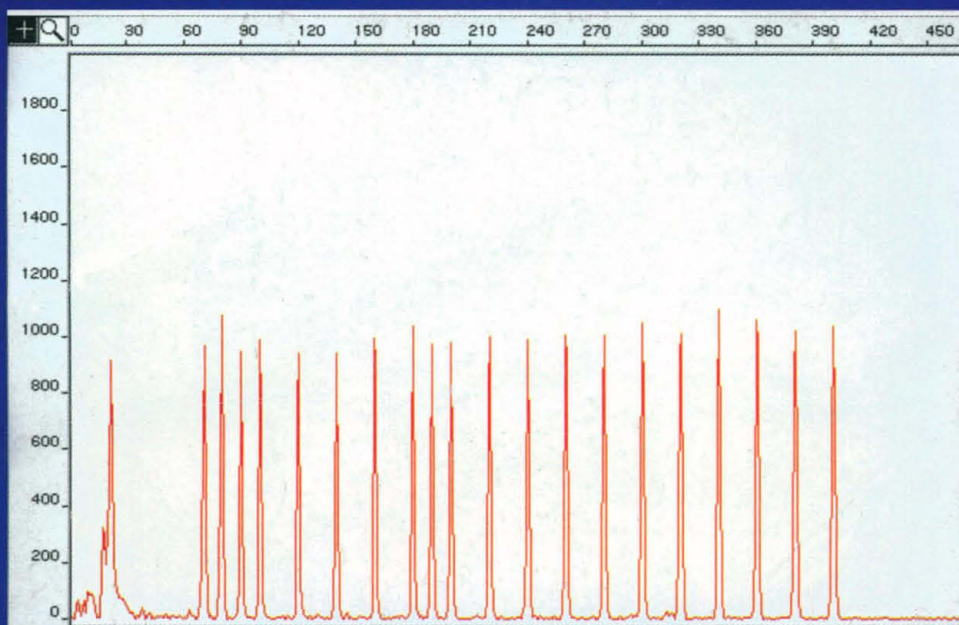
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