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**Debbie Cummings**  
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For **MEETINGS AND ANNOUNCEMENTS** display advertisements, see pages 153, 155, 156, and 161.

## LINE CLASSIFIED ADVERTISEMENTS

**How to Submit a Line Classified Ad:** Submit double-spaced typewritten copy. Do not include any abbreviations. SCIENCE will edit and typeset ads according to SCIENCE guidelines. Include billing information and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training, Services. SCIENCE cannot provide proofs of typeset line ads. Line advertisements are not commissionable.

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

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

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

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

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

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Email: [science\\_classifieds@aaas.org](mailto:science_classifieds@aaas.org) (please include your telephone number in Email)

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

## POSITIONS OPEN

### DIRECTOR NEUROSCIENCE CENTER UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

The University of North Carolina (UNC) School of Medicine is embarking on an expansion of its strong interdisciplinary research and educational programs in neuroscience. In conjunction with the establishment of the new UNC Neuroscience Center, we announce a search to appoint the first **DIRECTOR** of the Center. The Director will lead the continued development of the neurosciences, including the recruitment of new faculty members in collaboration with relevant departments. The Center will be housed in a new Neurosciences Building and recruitment packages for new faculty will be provided by a Research Resources for Medical Schools grant from the Howard Hughes Medical Institute. The Director, who will hold a tenured professorship in an appropriate department, will have a distinguished record of scientific achievement, strong administrative abilities, a broad view of neuroscience, and the ability to work effectively with departments and other centers in establishing collaborative research programs.

Review of applications will begin immediately and continue until the position is filled. Submit a letter of interest, curriculum vitae, and the names, addresses, and telephone numbers of four or more references to: **Chair, Neuroscience Director Search Committee, Office of the Dean, School of Medicine, The University of North Carolina, Campus Box 7000, MacNider Building, Chapel Hill, NC 27599-7000.**

UNC is an Equal Opportunity/Affirmative Action Employer. Qualified women and minorities are especially encouraged to apply.

### FACULTY POSITION PROTEIN ENGINEERING OF BIOMATERIALS

The Department of Biomedical Engineering of Case Western Reserve University (CWRU) is accepting applications for a **TENURE-TRACK FACULTY POSITION** in protein engineering of biomaterials. Research should focus on design and engineering of bio-polymer derived biomaterials using expertise in peptide/protein synthesis, protein engineering, and self-assembling macromolecular systems. Teaching of biomaterials at the undergraduate and graduate levels is expected. Candidates must have appropriate Ph.D. and postdoctoral research experience. Applicants should send a statement of research and teaching interests, curriculum vitae, and the names of three references to: **Prof. Gerald M. Sidel, Chairman, Department of Biomedical Engineering, Wickenden 504, Case Western Reserve University, Cleveland, OH 44106-7207.** CWRU is an Equal Opportunity/Affirmative Action Employer.

### FACULTY POSITION MICROVASCULAR AND/OR CEREBROVASCULAR PHYSIOLOGY OREGON HEALTH SCIENCES UNIVERSITY

Candidates are sought for a non-tenured faculty position at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR** in the Division of Neurosurgery. The successful candidate will be expected to develop an independent vascular research program and to collaborate with clinical faculty in the Division. Individuals with an interest in microvascular or cerebrovascular physiology are encouraged to apply. Interested applicants should submit curriculum vitae, statement of research interests and names of three references to:

**Johnny Delashaw, Jr., M.D.**  
Division of Neurosurgery L-472  
3181 SW Sam Jackson Park Road  
Portland, OR 97201

The Department of Biology at Marshall University seeks to fill a tenure-track **ASSISTANT PROFESSOR** position to begin Fall 1997. Applicants must have Ph.D. and postdoctoral training. The successful candidate will be a biotechnologist with expertise in bioremediation using genetically engineered organisms. Development of an externally-funded research program is expected. Teaching responsibilities include microbiology and upper-level courses in the candidate's area of expertise. Please send letter, statements of teaching and research, curriculum vitae and names with addresses and telephone numbers of three references no later than May 15, 1997 to: **Dr. David Mallory, Department of Biology, Marshall University, 400 Hal Greer Boulevard, Huntington, WV 25755; Email: [mallory@marshall.edu](mailto:mallory@marshall.edu); <http://www.marshall.edu>.** Marshall University is an Equal Opportunity Employer.

## POSITIONS OPEN

### HEMATOPOIETIC STEM CELL BIOLOGISTS Mount Sinai School of Medicine Institute for Gene Therapy and Molecular Medicine

Mount Sinai School of Medicine is recruiting several basic science **FACULTY** to this new academic Institute at all tenure-track levels. Successful applicants will be expected to develop, or have in place, strong, independent research programs in hematopoietic stem cell biology and differentiation. Opportunities exist for exceptionally productive collaborations with other Institute faculty whose primary research interests are in the broad areas of cell and molecular biology, vector systems, cellular immunology, molecular genetics, and gene therapy in animal models of disease.

We offer excellent start-up packages and state-of-the-art laboratory space. Interested individuals should forward curriculum vitae, a summary of past accomplishments and future research interests, and three letters of reference, by June 30, 1997, to: **George Atweh, M.D., Hematopoietic Stem Cell Faculty Research Committee, Institute for Gene Therapy and Molecular Medicine, Mount Sinai School of Medicine, One Gustave L. Levy Place, Box 1496, New York, NY 10029-6574.** The Mount Sinai Medical Center is an Equal Opportunity Employer. We foster diversity in the workplace.

### BIOLOGICAL OCEANOGRAPHER— ASSISTANT PROFESSOR

The U.S. Coast Guard Academy invites applications for a two-year temporary, **FULL-TIME POSITION** starting August 1 to teach courses in Marine Biology and Biochemical Oceanography as part of the Marine & Environmental Sciences major. Applicants must possess an M.S. (Ph.D. preferred) in Biological Oceanography or closely related field. Other preferred attributes include: knowledge of both open ocean and coastal marine science, some teaching at the undergraduate level and post-doctoral experience, expertise in marine plankton and invertebrates, and a commitment to excellence in undergraduate teaching. Submit curriculum vitae, statement of teaching philosophy, and names of three references postmarked by April 25, 1997 to: **Search Committee (Biology), U.S. Coast Guard Academy Box A-12, 15 Mohegan Avenue, New London, CT 06320-4195.** Salary will be commensurate with qualifications. The Academy is a four-year military college whose graduates receive a B.S. degree and a commission as a Coast Guard officer. Women and minority candidates are encouraged to apply. Some citizenship restrictions may apply. *The U.S. Coast Guard is an Equal Opportunity, Affirmative Action Employer.*

Magnetic Resonance Imaging (MRI) Scientist, with background in cardiac MR imaging at the Ph.D. level, for **ASSISTANT PROFESSOR** of Radiology position at the Hospital of the University of Pennsylvania. Communication with M.D.s essential. The applicant must have experience with cardiac functional imaging. Experience in pulse programming the GE Signa MRI scanner is highly desirable. Some experience in both RF coil and gradient coil design and construction is highly desirable. Experience with a whole body high field system (>3T) desirable. Applicants should have demonstrated research and teaching experience in MRI/MRS, as well as outstanding written and verbal communication skills. Send curriculum vitae to: **Mitchell D. Schnall, M.D., Ph.D., Chief, Magnetic Resonance Imaging, Hospital of the University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104.** The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Qualified female and minority candidates are encouraged to apply.

### MARINE INVERTEBRATE ZOOLOGIST

Full-time, three-year **ASSISTANT PROFESSOR** position; begins Fall Term 1997. Teach upper-level elective course for majors in invertebrate zoology with emphasis on marine organisms; a sophomore-level course for majors in general ecology; and a freshman-level majors course in diversity of life (primarily plants and animals). Some teaching responsibilities may alternate with other freshman-level biology courses. All courses include laboratories. Research involving undergraduates encouraged. Ph.D., and commitment to undergraduate teaching and liberal arts education. Must demonstrate training/experience in ecology as well as organismal biology. Interested individuals are encouraged to submit application materials postmarked no later than April 21, 1997 to ensure consideration. Submit interest letter, résumé and three reference letters to: **Biology Search, University of Puget Sound, P.O. Box 7297, Tacoma, WA 98407.** Equal Opportunity Employer/Affirmative Action.

National Institute on Aging  
National Institutes of Health  
Public Health Services  
Department of Health & Human Svcs

## CLINICAL DIRECTOR

After more than 30 years of distinguished service to the National Institute on Aging (and its predecessors), Dr. Reubin Andres has requested that he be relieved of the responsibilities of the Clinical Director so that he may focus his attention on his own diabetes research. Therefore, the National Institute on Aging (NIA) is now seeking applications for the position of Clinical Director. This is a Civil Service Position. Starting salary commensurate with qualifications and experience. Candidates may be eligible for Physician's Comparability Allowance up to \$20,000 per year. Alternatively, candidates may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service as well as the Senior Biomedical Research Service.

The Clinical Director provides scientific leadership for the NIA intramural clinical research program which has components both at the Warren Grant Magnuson Clinical Center and at Johns Hopkins Bayview Medical Center. He/she is responsible for the development, administration, coordination, and oversight of innovative investigator-initiated clinical research on normal aging and aging-associated diseases, including cancer, osteoarthritis, osteoporosis, diabetes, Alzheimer's disease, and a host of other conditions. The clinical investigation is of both an observational (for example, the Baltimore Longitudinal Study of Aging) and interventional nature. A general goal is the application of molecular medicine to the problems associated with aging. The Clinical Director is responsible for creating and maintaining a research environment in which clinical findings influence the direction of laboratory studies and laboratory findings are applied to patients. The Clinical Director will assure that clinical research in NIA reflects the highest standards of scientific excellence and the highest ethical standards for the protection of human subjects participating in intramural clinical research. We are seeking a physician with expertise in the development of innovative clinical research programs who has demonstrated the ability to manage a large, multidisciplinary clinical research program. Experience and working knowledge with issues related to human subjects experimentation is desirable.

Further information may be obtained by contacting Ms. Theresa Niebuhr at 410-558-8116. A current curriculum vitae and bibliography should be submitted to:

**Personnel Office  
National Institute on Aging  
Gerontology Research Center  
4940 Eastern Avenue  
Baltimore, MD 21224-2780  
Applications must be postmarked by  
May 12, 1997.**

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At Abbott Laboratories, our professionals are researching, developing and marketing the health care products that will make a significant impact on generations to come. We are currently seeking the following professionals to join us in our Pharmaceutical Products Division.

## ASSOCIATE SCIENTIST - BIOLOGY

As part of our Neuroscience area, you will perform hands-on experiments with isolated tissue bath preparations and whole animal studies. This includes screening compounds for efficacy in models for neurological and urological disorders, developing new in vivo models and working independently.

We are seeking an entry-level scientist with biological training and a BS/MS in Biology, Physiology, Pharmacology or related field. Excellent interpersonal, written and verbal communication skills are essential. (Job #97-LAM-A47C)

## RESEARCH SCIENTIST - ELECTROPHYSIOLOGIST

The Neuroscience area is also seeking someone to join a multidisciplinary team to evaluate clonal and native ion channels and their pharmacology to help develop novel agents for neurological and urological disorders.

The successful candidate will have a Ph.D. in Physiology, Pharmacology or related field with at least 2 years experience in patch-clamp electrophysiology. Experience with electrophysiological studies of synaptic transmission using brain slice preparations, mammalian tissue culture, and molecular biology techniques is helpful. Excellent interpersonal, written and verbal communication skills coupled with a commitment to novel Drug Discovery are essential. (Job #97-LAM-047C)

## POST-DOCTORAL FELLOW

The Computer Assisted Molecular Design area is seeking a Ph.D. in Biophysical Chemistry to investigate strategies for identifying compounds that will bind to a three-dimensional protein or nucleic acid structure. This involves working with large databases of molecules.

The successful candidate will have solid experience in the experimental determination of 3D protein structures or the computational examination of protein-ligand interactions. You must also be familiar with the UNIX operating system and molecular modeling software. Additionally, you must possess the organic chemistry insight into the structure-property relationships of small molecules. (Job #97-LAM-0499)

## RESEARCH ANALYTICAL CHEMIST

The NMR laboratory has a position available for someone interested in the data acquisition and analysis of both high resolution liquid and solid-state NMR spectra of organic molecules. In this position, you will maintain the NMR spectrometer systems, assure that the laboratory is in compliance with GLP/GMP requirements, write reports and present results to our customers.

The successful candidate will have a Ph.D. or M.S. in Chemistry with 3+ years experience in NMR. Experience with the operation of an NMR spectrometer and good spectral interpretation skills are necessary. A working knowledge of computer systems, preferably with the UNIX operating system, is required. The ability to work with R&D projects and to communicate effectively with project members is necessary. (Job #97-LAM-0515)

With 52,000 employees worldwide and more than \$11 billion in annual sales, we've established ourselves as a respected global business and innovative leader in the changing health care industry. For consideration, please send your resume with salary history to: Abbott Laboratories, Job # (please select), D583, AP9A(LL), 100 Abbott Park Rd., Abbott Park, IL 60064.

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## Postdoctoral Fellowship

At Parke-Davis Pharmaceutical Research Division of Warner-Lambert Company, inspired science and a strategy of innovation has made us an international leader in the pharmaceutical industry. We currently have a Postdoctoral Fellowship available in our Immunopathology Department in Ann Arbor, MI.

The selected individual will examine the regulation of expression and immunoregulatory roles of cytokines and chemokines in animal models of arthritis. A Ph.D. along with experience in Pharmacology or Cellular and Molecular Immunology and experience or interest in working with animal models are required.

Members of our world-class pharmaceutical team enjoy competitive salaries, benefits and career growth potential. Candidates should mail, fax or e-mail a resume to: **Parke-Davis Pharmaceutical Research, Human Resources Department, BOX: CJM-963164, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: (313) 998-3394. E-mail: resume@aa.wl.com.**

When submitting your resume please follow these guidelines to ensure that your resume will electronically scan legibly: Please use white laser quality paper; standard fonts such as Courier or Helvetica in 10 point or larger; and avoid the use of bold, italics, underlines, borders, boxes and graphics.

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## Senior Research Investigator

Working with our Investigative Toxicology group, you will be responsible for supporting Early Discovery Toxicology activities at our St. Louis facility.

We're seeking a Ph.D. level scientist with a combined degree in Pharmacology and Toxicology and 2+ years of postdoctoral training and experience in enzymology (or a related field). A solid publication record in biochemical pharmacology/toxicology and the application of general biochemical and molecular biology laboratory methodologies and techniques is essential, as is experience with both in vivo and in vitro cell culture systems. Specific training or experience in drug development and personnel management is desired.

For consideration, please send your resume to: Searle, Job Code: DM J307/539, 4901 Searle Parkway, Skokie, IL 60077 or fax to: 847/982-7465. Visit our homepage at <http://www.monsanto.com>. EOE/AA Employer M/F/D/V.

**SEARLE**

## DIRECTOR, DIVISION OF VIRAL PRODUCTS

The Food and Drug Administration is recruiting for the Director, Division of Viral Products, Office of Vaccines Research and Review in the Center for Biologics Evaluation and Research located in Bethesda, Maryland. The Director is responsible for managing a staff of approximately 70 scientists and support staff in assuring the safety and effectiveness of vaccines used in the prevention of viral diseases. Applicants must have experience in managing a broad scientific research or regulatory program; a demonstrated ability to deal effectively with high level governmental officials, the scientific and academic communities, medical and health-related organizations, representatives of the regulated industry and others; and the ability to implement equal employment opportunity programs. An M.D. degree with subsequent training in virology and/or infectious diseases or professional experience or directly related postgraduate education in virology or related disciplines and national/international reputation is required. **QUALIFICATIONS:** *U.S. Citizenship is required.* **PHYSICIAN** Applicants must have a Doctor of Medicine or equivalent degree from an accredited institution and additional clinical and/or research training. Graduates of foreign medical schools must submit a copy of their permanent Education Commission of Foreign Medical Graduates (ECFMG) certificates. **SCIENTIST** (other than M.D.) applicants must have a degree in microbiology, immunology, biochemistry, molecular biology, cellular biology, or related field and additional research training. **SALARY:** **PHYSICIAN** Salary range for civil service positions at the GS-15 level is \$75,935 to \$98,714 per annum. In addition, physician may also be eligible for a Physicians Comparability Allowance up to \$20,000 per annum OR a Physician Special Pay up to \$148,400 based on experience, qualification, and medical specialty. **SCIENTIST** (other than M.D.) Civil Service salary range for the GS-15 is \$75,935 to \$98,714 per annum. Scientists may be eligible for the Senior Biomedical Research Service (SBRS) which pays up to maximum of \$148,400. Positions may be filled by appointment in the U.S. Public Health Service Commissioned Corps with commensurate salary and benefits. **HOW TO APPLY—CALL: Melanie Whelan at (301) 827-0655** for instructions on submitting proper documentation. All interested applicants must contact Ms. Whelan no later than June 1, 1997.

*FDA is an equal opportunity employer and has a smoke free environment.*



## DIRECTOR LUNG CANCER RESEARCH PROGRAM ALBUQUERQUE, NM

Lovelace Respiratory Research Institute, a private, not-for-profit, biomedical research organization, seeks an NIH-funded scientist (MD, PhD or DVM) as Director of its Lung Cancer Research Program to lead and direct nine scientists. The Institute has well-funded programs in respiratory immunology and physiology, inhalation toxicology, aerosol science, and lung cancer.

We seek a nationally recognized laboratory scientist with a demonstrated ability to manage a large research program in which all segments work together to meet common goals within a unified mission. The person selected will be responsible for leading scientists who work in various aspects of the biology of cancer.

This position includes appointment to the faculty of the University of New Mexico School of Medicine and opportunity to collaborate with scientists at the UNM Cancer Research and Treatment Center; Epidemiology and Cancer Control Center; NM Tumor Registry/SEER Program; and the VA Hospital.

Send a letter of interest and CV to Matthew J. Kluger, PhD, Lovelace Respiratory Research Institute, 2425 Ridgecrest Dr. SE, Albuquerque, NM 87108. For more information, phone Dr. Kluger at 505-262-7531. Review of applications begins July 1, 1997.

Lovelace Respiratory Research Institute is an Equal Opportunity Employer.

National Institute of Arthritis and  
Musculoskeletal and Skin Diseases  
(NIAMS), National Institutes of Health  
(NIH), Public Health Service (PHS),  
Bethesda, Maryland

## POSTDOCTORAL POSITION

The Genetics Section of the Arthritis and Rheumatism Branch of NIAMS is seeking a postdoctoral fellow with a strong background in molecular biology to study the genetics of inflammatory diseases. The current interest of the laboratory is the identification of the gene causing familial Mediterranean fever by positional cloning. Current projects include genetic and physical mapping, transcript identification, mutation-detection, and large-scale sequencing from the candidate region on chromosome 16. The position is available immediately. Applicants must submit a curriculum vitae, bibliography and three letters of reference to:

Dr. Daniel Kastner, MD, Chief,  
Genetics Section, NIH, NIAMS,  
Building 10, Room 9N-214, 10 CEN-  
TER DR MSC 1820, BETHESDA, MD  
20892-1820. Voice: (301) 496-8364.  
Fax: (301) 402-0012.

E-mail: [kastner@fmf.niams.nih.gov](mailto:kastner@fmf.niams.nih.gov)

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## ASSISTANT OR ASSOCIATE PROFESSOR

The Department of Physiology and Pharmacology, School of Medicine, Oregon Health Sciences University (OHSU) invites applications for a full-time tenure-track position at the rank of assistant or associate professor. The department will hire a scientist with training and a funded research program in pharmacology. The successful candidate will be expected to participate in the education of medical and graduate students and specifically to teach cardiovascular pharmacology.

Candidates holding a doctoral degree should apply by sending a letter of interest, a statement of research interests and teaching experience, curriculum vitae and the names and addresses of three professional references to **Dr. George D. Olsen, Chair of Search Committee, Department of Physiology and Pharmacology, L221, The Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098.** Application deadline is April 30, 1997. *OHSU is an Affirmative Action/Equal Opportunity Employer.*

## Group Leader/Protein Expression

Headquartered in the San Francisco Bay Area, **Arris Pharmaceutical Corporation** is an innovative biopharmaceutical company using an integrated, team-oriented approach to drug discovery. We are expanding our progressive protease-based program, and we have a great opportunity for a motivated Group Leader to oversee our expanding Protein Expression Group. Supported by state-of-the-art instrumentation, you will become a pivotal member of a skilled interdisciplinary research team applying medicinal, combinatorial and computational chemistry, molecular biology, biochemistry, and pharmacology to the discovery of viable drug candidates.

In this key role, you will lead a team of 5 scientists in the production of recombinant protein for the application of structure-based drug design of small molecule therapeutics. You will also plan and prioritize departmental activities to achieve company goals; introduce/develop novel technologies for the optimization of recombinant protein production; represent the group at management meetings; facilitate clear and timely communication between management and the group; and review/evaluate employee performance.

Candidates should possess a Ph.D. in chemical engineering, biochemistry, or molecular biology along with a minimum of 5 years' postdoctoral experience in cell culture/fermentation (bacterial, yeast, baculovirus, mammalian) expression systems to at least a 10L scale. The position requires proven experience with media development, process optimization, and protein purification. A successful track record in the expression of proteolytic enzymes and the production of crystallization quality protein is essential. Supervisory experience is a must. We're looking for a hands-on team player with excellent communication skills, and the demonstrated desire & the ability to excel in a highly interdisciplinary scientific/discovery environment.

We offer extremely competitive salaries, full benefits, attractive equity participation and career advancement opportunities within a progressive, growing company. Please forward your resume to:



**Arris Pharmaceutical Corp.**  
Human Resources  
Attn: Job# SM0404-GLPE  
385 Oyster Point Blvd., Suite 3  
South San Francisco, CA 94080  
[www.arris.com](http://www.arris.com)

EOE

## The Science of Agricultural Genetics

### RESEARCH MANAGER - PLANT BIOCHEMISTRY Grain Traits (Job #GT-711)

We seek a biochemist or molecular biologist to join a group focused on research to improve corn and soybean for use as feed. The focus of your project would be to obtain grain with increased available energy for animal feed. The successful applicant will establish a research program to complement and collaborate with the existing state-of-the-art efforts in seed proteins, carbohydrates, secondary metabolism, gene expression, protein engineering and transformation. Education/Experience: Ph.D. degree and at least 3 years of post-graduate experience or equivalent experience in molecular biology, biochemistry or a related field.

### SENIOR RESEARCH ASSOCIATE Grain Traits (Job #GT-709)

This position is available immediately to head an investigation directed toward understanding plant secondary metabolism using transgenic approaches. The candidate should have strong knowledge and bench experience in the identification of potential regulatory proteins, gene isolation/characterization techniques (e.g., PCR, cDNA library construction, cloning and mutagenesis), expression of engineered genes targeted to various compartments, and analyses of transgene expression. Expertise in metabolic engineering and current molecular-biology-related technologies are desired. Good communication skills are essential, as the candidate is expected to present scientific findings and interact with a wide-variety of scientists. This position requires at least an MS in molecular biology/biochemistry or a related field. Review of applications will begin immediately.

Pioneer Hi-Bred International, Inc. offers an opportunity to interact among hundreds of scientists with diverse backgrounds. We offer competitive salaries and excellent, comprehensive benefits. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages. For confidential consideration send 3 copies of your cover letter and current resume, indicating job number, by April 23, 1997 to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (Job #GT-711 or GT-709), P.O. Box 1004, Johnston, IA 50131-1004.

Pioneer Hi Bred International, Inc., is the world leader in agricultural genetics. Founded in 1926, we are a publicly held company that invests more than \$115 million in research and product development. Pioneer brand products are grown in almost every crop-producing continent in the world. At our headquarters in Des Moines, Iowa, we're adding to our Research team.



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Our focus is innovation in the research and development of pharmaceuticals and medical devices for the preservation and restoration of vision.

### Senior Scientist

#### Retina Pharmacology

We seek to enhance our leading edge research efforts through the addition of a senior scientist in retina pharmacology. In this technically challenging position, you will establish *in vivo* models of retinal neovascularization in support of drug evaluation. You will communicate and interact within a multidisciplinary team of biochemists, cell biologists, pharmacologists, and medicinal chemists generating data in support of drug discovery programs.

The Ph.D. degreed candidate will have a strong background in pharmacology and retina biology. In addition, preference will be given to candidates with industrial experience, an in-depth knowledge of neovascular disorders of the retina, and the capability to establish *in vivo* models for drug evaluation. Demonstrated communication and collaboration skills are essential.

Alcon Laboratories' professionals enjoy a state-of-the-art environment along with industry-competitive salaries and excellent benefits, including medical/life/dental/vision insurance and a very generous profit sharing trust plan. Our 160-acre headquarters campus is located in Fort Worth, Texas, renowned for its warm climate, favorable cost of living, and a variety of educational, recreational, and cultural attractions. Please send your **curriculum vitae and current salary requirements** to: Alcon Laboratories, Inc., Placement & Development, T1-3 (SSRP), P.O. Box 6600, Fort Worth, TX 76115.

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This position requires a B.S. in chemistry, pharmacy or a related science with a minimum of three years of experience preparing formulations such as solutions, suspensions, and emulsions for GLP toxicology and pharmacokinetic studies. Candidates must possess excellent oral and written communication and interpersonal skills. Familiarity with formulations in animal feeds, experience in the formulation of peptides, proteins, and with sterile and aseptic preparations is preferred. Previous supervisory experience and/or experience training technical staff, knowledge and understanding of GLP and documentation of data, and familiarity with software packages using Microsoft Word, Excel, and Access would be beneficial.

Battelle offers competitive salaries, comprehensive benefits, and opportunities for professional development. Please send your resume to: **Battelle, Dept. N71, 505 King Avenue, Columbus, OH 43201-2693.** Battelle is an Affirmative Action/Equal Opportunity Employer M/F/D/V.



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Fax: +44 (0) 1223 576208

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## MANAGER, TRANSGENIC MOUSE FACILITY

Memorial Sloan-Kettering Cancer Center seeks candidates for Manager of the Transgenic Mouse Facility headed by Dr. Elizabeth Lacy.

The Manager's responsibilities include consultation and training in ES cell culture and mouse genetics, supervision of three technologists in egg and blastocyst injection and cryopreservation, and direction of a mouse breeding service. Implementation of new and/or improved genetic technologies is also a significant component of this position. Successful candidates will have a Ph.D. and postdoctoral experience in ES cell culture and mouse embryo manipulation.

Please submit CV and three letters of recommendation by April 30, 1997 to: Dr. Elizabeth Lacy, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, Box 86, New York, NY 10021; Fax: 212-639-2861



**Memorial  
Sloan-Kettering  
Cancer Center**

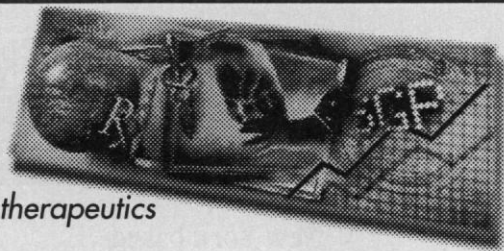
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**Texas A&M University  
Dean, College of Geosciences and  
Maritime Studies**

<http://www-ocean.tamu.edu/Geoscience/>

Texas A&M University invites nominations and applications for the position of Dean, College of Geosciences and Maritime Studies, Texas A&M University. The holder of this position is the Chief Executive Officer of the College, which is comprised of 130 faculty members and approximately 400 undergraduate students and 350 graduate students. The College includes the Departments of Geology and Geophysics, Geography, Meteorology, and Oceanography, and a variety of research units such as the Ocean Drilling Program, Sea Grant Program, and Geochemical and Environmental Research Group. The major qualifications for the position are: A strong record of academic accomplishment. Proven administrative and leadership capabilities and experience. Commitment to higher education in the form of teaching, scholarship, research, and faculty development. Commitment to cultural, ethnic, and gender diversity. Ability to work effectively with all departments in the college. Ability to represent the college externally, on and off campus. *Texas A&M University affirms diversity as essential to its missions, is an equal opportunity, affirmative action employer/educator, and encourages applications and nominations of women and minorities.* The Search Committee will begin the screening of candidates on April 30, 1997. Further information is available upon request. Nominations and applications should be sent to: Dr. Edward Hiler, Chair, Texas A&M University, Room 113 Administration Building, College Station, Texas 77843-2142; Phone: (409) 862-4384, Fax: (409) 862-1637, email: e-hiler@tamu.edu. Please be advised that under Texas law, names and other information concerning applicants or nominees may be subject to disclosure upon request.



*A crucial step in the  
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## DRUG SAFETY AT SCHERING-PLOUGH

At Schering-Plough's Lafayette, NJ Safety Evaluation Center, careful scrutiny and advanced testing ensure that each new medicine undergoes pre-clinical testing. You can impact the areas of safety, efficacy and quality assurance for future medicines with worldwide application.

### SENIOR PRINCIPAL SCIENTISTS

#### *Reproduction and General Toxicology*

Positions are currently available in both our Reproductive Toxicology and General Toxicology Departments for Senior Principal Scientists to act as a Study Director/Monitor for pre-clinical toxicology studies conducted in-house and/or at contract facilities. You will design and conduct pre-clinical toxicology and investigational studies; represent Drug Safety on Project Team Working Groups and/or ad hoc committees; participate in the review of toxicology data for in-licensing drug candidates; provide a high level of scientific expertise in one or more areas of toxicology; collaborate with other scientists and management in defining pre-clinical toxicology projects for specific drug candidates. To qualify, you will need a PhD in Toxicology and at least 5 years of postdoctoral training in a relevant field of toxicology research and/or drug safety. Excellent verbal and written communication skills are essential. GLP experience is also required. Therapy Team and drug development experience is desired. To be considered for these positions, please reference Dept. TX-RMRR01-KB.

### ASSISTANT SCIENTISTS

#### *Reproduction and General Toxicology*

We have immediate opportunities in our Reproduction and General Toxicology Laboratories for Assistant Scientists to handle laboratory duties for *in vivo* studies for drug safety assessment. This will include dose preparation, dosing, collecting and tabulating computerized data, and assisting in the preparation of documents for regulatory submissions. To qualify, you will need a BS degree in a relevant scientific discipline, some *in vivo* experience and computer skills. A.A.L.A.S. certification is desirable. To be considered for these positions, please reference Dept. TX-KV01-KB.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume indicating the Dept. Code for your position of interest and salary requirements to: Human Resources-KB, Schering-Plough Research Institute, 2015 Galloping Hill Road, K-15, Kenilworth, NJ 07033-0539. You may also respond via e-mail to: [spri@spcorp.com](mailto:spri@spcorp.com). Please include the Department Code for your position of interest in the Subject Line. We are an equal opportunity employer. *We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.*



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Using Science for Human Advantage

## BIODIVERSITY/INTERNATIONAL WATERS TECHNICAL SPECIALIST

### Focus on the Asia and Pacific Region

#### New York based

The Global Environment Facility (GEF) unit of the United Nations Development Programme (UNDP) is offering an exceptional opportunity for an individual with expertise in biodiversity and international waters issues, particularly as they relate to the countries of Asia and the Pacific. The GEF is the world's largest international environmental fund that provides assistance to developing countries and countries with economies in transition for efforts addressing the conservation and sustainable use of biodiversity; mitigation of global warming; protection of international waters; and the reduction of ozone-depleting substances. The professional selected for this position, which is available immediately, will be based in New York headquarters under an initial one-year contract with a competitive salary that includes the possibility for renewal over a longer term.

#### Responsibilities:

- Provide technical guidance in all aspects of the development and implementation of UNDP's GEF biodiversity and international waters portfolio in the Asia and the Pacific region
- Work in the UNDP Regional Bureau for Asia and the Pacific in the development and execution of international waters projects funded by the GEF
- Critically evaluate biodiversity and international waters proposals submitted to UNDP for possible GEF funding
- Work together with developing country governments in the region through UNDP Country Offices, to enhance awareness of biodiversity and international waters issues and the GEF
- Work together with UNEP Country Offices in the region to enhance awareness of biodiversity and international waters issues and the GEF
- Work closely with UNDP, the World Bank, UN agencies, NGO's and the private sector to ensure the excellence of UNDP's GEF portfolio

#### Qualifications:

- Post-graduate degree in a relevant field
- At least 8-10 years' experience in efforts related to the preservation of biodiversity and/or the quality of international waters.
- Excellent written and oral communication skills in English, and fluency in at least one other major language in the region is required for providing technical support and guidance to project proponents; for training initiatives; for responding to information requests; and for ensuring productive collaboration with other GEF Implementing Agencies
- Well versed in computers and telecommunications (especially electronic mail)

Qualified individuals from developing countries are especially encouraged to apply. Acknowledgments will only be sent to applicants strictly meeting the requirements of this position. Curriculum vitae and three professional references should be directed as soon as possible and no later than 30 May 1997, to: Mr. Rafael Asenjo, Executive Coordinator, Global Environment Facility, United Nations Development Programme, Room FF-1094, One United Nations Plaza, New York, NY 10017; Fax: (212) 906-6998; Email via Internet: rafael.asenjo@undp.org



UNITED NATIONS DEVELOPMENT PROGRAMME



Panlabs, Inc. in Bothell, Washington, a world leader in providing contract research services in drug discovery, has an immediate opening for:

#### Ph.D. Senior Scientist/Cell Biologist

##### Drug Discovery

(Position #97-11)

The Successful candidate will be responsible for coordination and prioritization of cell biology staff personnel who support internal and external high throughput screening programs. The position requires broad experience with a wide range of mammalian and insect cells, an appreciation for rigorous GLP-like documentation, a solid knowledge of media formulation, and experience with the growth of attached cells, cells grown in suspension (spinner flask) and the scale-up of cells in "cell factories." Experience with the Cell Cube Bioreactor for the large scale production of cell-based reagents is desirable. Experience in the development of cell based assays using reporter gene technology is also a plus.

The position requires a Ph.D., or equivalent, in the biological sciences with at least 5 years of cell culture experience. Good analytical, managerial, and communication skills are required. The person should also be strongly motivated to interact with multiple internal groups participating in a team environment. Submit resume to:

**Panlabs, Inc.**

**Attn: Human Resources #97-11**

**11804 North Creek Parkway South**

**Bothell, WA 98011**

*An Equal Opportunity Employer*

#### Department of Pharmacology University of Minnesota Medical School TENURE/TRACK POSITION

(Assistant Professor, Associate Professor and Professor)

The Department of Pharmacology at the University of Minnesota Medical School is growing, and we are inviting applications for a tenure/track faculty position. Successful candidates are expected to establish an outstanding, independent research program, in addition to participating in team-taught undergraduate/graduate medical courses in the area of molecular pharmacology. Requirements for Assistant Professor positions include a Ph.D. in Pharmacology or other basic medical sciences or an M.D., and at least 2 years of postdoctoral research experience. Candidates with a strong research background and experience in using state-of-the-art approaches involving cellular, molecular, genetic or biophysical techniques to study problems relevant to pharmacological sciences are preferred. Applicants must have demonstrated involvement in research and published in leading peer-reviewed journals.

Appointments as Associate Professor (Tenured) or Professor (Tenured) will be considered for applicants with professional distinction in published research, teaching and evidence of consistently attracting extramural funding for research. Appointments at these ranks must meet the minimum qualifications established by the University of Minnesota.

Applicants should indicate the rank they are applying for and send a copy of their curriculum vitae, reprints of important publications, a statement of research plans and names of three references to: **Chairperson, Pharmacology Search Committee, Department of Pharmacology, 3-249 Millard Hall, University of Minnesota, 435 Delaware Street, S.E., Minneapolis, MN 55455.** Review of applications will begin May 9, 1997. Position will remain open until it is filled. *University of Minnesota is an equal opportunity educator/ employer and offers an excellent academic research environment.* For further information about the Department of Pharmacology and its programs, access the Department's home page <http://brain.med.umn.edu/index.html> on the internet.



## ASSOCIATE DIRECTOR Microbial Physiologist/Biochemist



COMMITTED TO  
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LEADERSHIP IN  
HEALTHCARE

Wyeth-Ayerst Research, a major division of Fortune 100 American Home Products Corporation, has an opportunity within Infectious Disease Discovery Research in their Pearl River, New York pharmaceutical research facility.

The selected scientist will lead a group of Biochemists and Geneticists within the Microbial Physiology section which is responsible for the development of novel screens and assays directed toward the discovery of innovative anti-bacterial compounds. Microbial Physiology interacts with the anti-viral research group within Infectious Disease Research and with our external collaborating colleagues for the identification of novel bacterial targets for drug discovery.

The ideal candidate will be a Ph.D. Biochemist or Microbial Physiologist with a minimum of 5 years experience in academia or industry. Knowledge of bacterial genetics, excellent interpersonal skills and the ability to discuss/defend ideas within a strong scientific group are essential. Previous supervisory experience is required.

Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Please send your resume with salary requirements to: **Wyeth-Ayerst Research, Human Resources Dept., Position #OPSCI-1970, P.O. Box 7886, Philadelphia, PA 19101-7886**, or fax your resume (in fine mode if possible) directly into our centralized Research resume database at (610) 989-4854. E-mail: [jobs@RAMAIL1.wyeth.com](mailto:jobs@RAMAIL1.wyeth.com) (ASCII format, no attachments, subject: resume). Equal Opportunity Employer, M/F/D/V.



## SENIOR SCIENTIST

We're Baxter Healthcare Corporation, a leading health care company, and one of the world's foremost providers of breakthrough products and services. Our pioneering medical technology has resulted in innovative healthcare that has improved human life around the world. Currently, we are seeking a Senior Scientist to join us in the following global position.

Working through the Clintec Parenteral Nutrition R&D group, you will provide advanced scientific/product support and supervise multiple research projects. This involves interpreting technical information to aid marketing and sales in the positioning of products, as well as reviewing clinical and preclinical protocols to ensure that they meet scientific standards. Additionally, you will oversee and participate in scientific research conducted with outside collaborators and interact with the FDA and other global regulatory agencies as a technical expert in parenteral nutrition.

We require a Ph.D. (or equivalent) and superior communication and interpersonal skills. Solid experience in a scientific/clinical research position in the area of nutrition and metabolism is desired, as is experience in teaching other research or health care professionals. A knowledge of parenteral nutrition products and usage is also desirable. Additionally, you must be team-oriented and self-motivated.

We offer a competitive salary and benefits package. For consideration, please send your resume to: **Baxter Healthcare Corporation, I.V. Systems Division, WG1-3S, Dept. JM-SC, Route 120 & Wilson Rd., Round Lake, IL 60073**. Baxter is an Equal Opportunity Employer.

**Baxter**

## POSTDOCTORAL FELLOWSHIPS IN MOLECULAR AND CELL BIOLOGY AT THE NIH

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

■ The targeting of proteins to the secretory pathway in both eukaryotes and prokaryotes is being studied using a combination of biochemical and genetic approaches. Current projects focus on the mechanisms of signal sequence recognition, the regulation of protein targeting GTPases, and the function of a prokaryotic homolog of the signal recognition particle (SRP). (**Harris Bernstein**)

■ Biochemistry and molecular biology of homologous recombination in eukaryotes and prokaryotes, the structure and function of novel triplex DNAs, new methods for gene mapping and cloning (e.g., RARE) and gene targeting in mammalian cells, gene rearrangements in eukaryotes and novel approaches to gene therapy (including the use of small molecules that promote gene targeting, such as miniRecAs). (**Dan Camerini-Otero**)

■ Identification of DNA rearrangements in malignant and premalignant conditions involving the gastrointestinal tract. Technical emphasis is placed on using novel RecA-assisted sequence-specific mapping and cloning reactions developed in this laboratory, as well as using automated sequencing and robotic equipment and the emerging data base from the Human Genome Project. (**Lance Ferrin**)

■ Our lab focuses on DNA repair and recombination. We are interested in a mechanistic understanding of how MutS and MutL mismatch repair enzymes contribute to maintenance of genome stability. We are using molecular biology and biochemical approaches to identify structural elements involved in protein-DNA and protein-protein interactions. We are also characterizing branch migration of DNA Holliday junctions, a key intermediate in genetic recombination. (**Peggy Hsieh**)

■ Molecular basis of mechanisms involved in hormonal and developmental control of gene expression. The immediate focus is on the transacting factors of the steroid/thyroid hormone receptor gene superfamily. Present work involves homologous recombination to target genes of regulatory nuclear proteins. (**Vera Nikodem**)

■ The role(s) of small nucleolar ribonucleoprotein particles (snoRNPs) in pre-rRNA processing in vertebrate and invertebrate model systems is being examined using molecular and biochemical approaches. Current work focuses on the interactions between pre-rRNA and both the RNA and protein components of the snoRNPs to learn more about the mechanisms by which the snoRNPs affect pre-rRNA processing and ribosome assembly. (**Brenda Peculis**)

■ Current projects involve gene targeting to generate mouse models of human diseases, development of gene and protein-based therapies for treatment of neurodegenerative disorders, and the study of ganglioside function in the nervous system and during development. (**Rick Proia**)

■ The functional role of a family of neural-specific transcription factors, class III POU domain genes, is being investigated using a combination of molecular and embryological approaches in vertebrate embryos. The regulation of these POU domain genes by growth factors during gastrulation and neurulation is also under investigation. (**Sheryl Sato**)

Interested candidates should send a letter to the relevant branch member stating their interests, their curriculum vitae and list of publications, and the names and addresses of three references at:

**Genetics and Biochemistry Branch  
NATIONAL INSTITUTES OF HEALTH  
Building 10, Room 9D-20  
10 CENTER DR MSC 1810  
BETHESDA MD 20892-1810  
Telephone: 301-496-2710**



## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR

The Department of Cell Biology and Anatomy in the Faculty of Medicine and Oral Health Sciences at the University of Alberta invites applications for a tenure-track position as **ASSISTANT/ASSOCIATE PROFESSOR**. We are looking for an individual who will complement our existing strengths in 1) neurobiology, 2) cell signaling, 3) protein targeting and organelle biogenesis and 4) cell-cell interactions. Salary range: \$39,230-\$69,664 per annum, plus comprehensive benefits. Applicant should have proven records of research achievement and be eligible for funding by the Alberta Heritage Foundation for Medical Research. The successful candidate will be expected to carry on an independent research program, but will also have the opportunity for collaborative interactions with several multidisciplinary research groups within the University. A contribution to the Department's teaching program will also be expected. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. If suitable Canadian citizens and permanent residents cannot be found, other individuals will be considered. Please send a curriculum vitae, a one-page statement of research interest, and arrange to have three to five letters of reference sent on your behalf to: **Dr. Richard Rachubinski, Professor and Chair, Cell Biology and Anatomy, University of Alberta, Edmonton, Alberta, Canada T6G 2H7**. Deadline for receipt of applications is August 15, 1997. *The University of Alberta is committed to the principle of equity in employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including aboriginal peoples, persons with disabilities, and members of visible minorities.*

### ASSISTANT/ASSOCIATE PROFESSOR AUDITORY NEUROBIOLOGY University of Florida College of Medicine

The Departments of Neuroscience and Otolaryngology, in conjunction with the University of Florida Brain Institute, invite applications for a tenure-track **FACULTY** position for individuals having a Ph.D. and/or M.D. degree. The position is in part supported by the Lucille P. Markey Charitable Trust. The successful candidate will be expected to develop an independent and interactive research program and contribute to the teaching of professional and graduate students. Applicants with demonstrated productivity and a strong research focus in the central auditory system will be considered. Interests in plasticity and rehabilitation following auditory deprivation are preferred. Collaboration on clinically oriented projects (e.g., the cochlear implant program) will be encouraged. Procurement of external funding will be expected. The position offers a competitive salary and excellent research facilities and start-up package. Applicants should send their curriculum vitae, a brief description of research interests, and three letters of recommendation to: **Dr. Charles Vierck, Chair, Search Committee for the Markey Faculty Scholars Program, Department of Neuroscience, Box 100244, University of Florida, Gainesville, FL 32610-0244**. Application deadline is May 5, 1997, with a start date on or after July 1, 1997. *The University of Florida is an Equal Opportunity Employer, and minorities and women are especially encouraged to apply.*

### TENURE-TRACK POSITION (ASSISTANT PROFESSOR EQUIVALENT) Cellular Neurophysiology and/or Cellular Neuropharmacology

A position is available in the NIH, National Institute on Alcohol Abuse and Alcoholism, Laboratory of Molecular and Cellular Neurobiology (Chief, **Dr. Forrest F. Weight**) to develop an independent research program investigating the cellular basis of alcohol effects in the nervous system. Expertise in electrophysiological techniques for investigating the cellular physiology and/or cellular pharmacology of membrane ion channels in mammalian neurons is required. Applicants should have a doctoral degree, several years of relevant postdoctoral experience, and be a U.S. citizen or permanent resident.

The deadline for receipt of applications is April 30, 1997. Applicants should submit a curriculum vitae, a detailed statement of research interests, and three letters of reference to:

**LMCN Search Committee  
c/o Ms. Kathleen Hanratty  
NIAAA Intramural Personnel Office  
NIH, Building 31, Room 1B58  
31 Center Drive, MSC 2088  
Bethesda, MD 20892-2088**

## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR MOLECULAR MICROBIOLOGY THE UNIVERSITY OF ARIZONA

The Undergraduate Program in Microbiology (UPM), consisting of faculty from the Colleges of Agriculture, Arts and Sciences, and Medicine, is seeking candidates with a broad understanding of microbiology and an active research program for a tenure-track position at the **ASSISTANT OR ASSOCIATE PROFESSOR** level. The successful applicant will be expected to: direct and teach in the team-taught introductory majors/nonmajors microbiology course; to participate in graduate instruction; and to establish an extramurally-funded independent research program. The appointment will be made in the UPM home department, Veterinary Science and Microbiology. The undergraduate Microbiology major has approximately 200 students and participating faculty from the Departments of: Biochemistry, Microbiology and Immunology; Molecular and Cell Biology; Plant Pathology; Plant Sciences; Soil, Water, and Environmental Science; and Veterinary Science and Microbiology. More information about the UPM can be found at our web site, [www.microvet.arizona.edu](http://www.microvet.arizona.edu). Outstanding candidates holding the Ph.D. or equivalent degree(s) are encouraged to apply by sending a letter of intent, curriculum vitae, a statement of teaching philosophy and research interests, and the names and addresses of three referees to: **Wayne Nicholson, Ph.D., UPM Search Committee Chair, Department of Veterinary Science and Microbiology, Building 90, Room 202, The University of Arizona, Tucson, AZ 85721**. Review of applications will begin April 1997 and continue until the position is filled. *The University of Arizona is an Affirmative Action/Equal Opportunity/Americans with Disabilities Act Employer and encourages applications from minorities, women, persons with disabilities, and veterans.*

### PULMONARY RESEARCH

The Pulmonary and Critical Care Division, Northwestern University Medical School, seeks a cell/molecular biologist for a tenure-eligible position at the **ASSISTANT/ASSOCIATE PROFESSOR** level. A Ph.D. or M.D. scientist with expertise in inflammation, signal transduction, cytokines, growth factors, or molecular biology is preferred. The current focus of research is bronchial and alveolar epithelial cell biology, including inflammation, injury and repair. A joint appointment with the Division of Molecular Genetics is anticipated. Salary is negotiable and depends on qualifications and experience. Direct inquiries and submit a curriculum vitae with cover letter to: **Lewis Smith, M.D., 303 East Superior, Room 777, Chicago, IL 60611. FAX: 312-908-4650; Email: ljsmith@nwu.edu**. Applications should be received by June 1, 1997 to receive full consideration. Hiring is contingent upon eligibility to work in the United States. *Northwestern University is an Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITION Biochemistry

The Department of Biochemistry at Midwestern University seeks applicants for a tenure-track position at the level of **ASSISTANT PROFESSOR**, although higher ranks will be considered for particularly well-qualified applicants. The position is available for individuals specializing in aspects of modern biochemistry and molecular biology. Applicants must have a Ph.D. or equivalent, postdoctoral training and a commitment to excellence in both teaching and establishment of a rigorous research program capable of attracting extramural funding. Preference may be given to individuals broadly trained in medical biochemistry who have previous teaching experience in a professional health care curriculum. Send curriculum vitae, names of at least three references, and a statement specifying teaching interests and research plans to: **Lon J. Van Winkle, Ph.D., Department of Biochemistry, Midwestern University, 555 31st Street, Downers Grove, IL 60515**. *Affirmative Action/Equal Opportunity Employer. Women/minorities/veterans/disabled are encouraged to apply.*

### UNIVERSITY OF FLORIDA

Seeks an **ASSISTANT PROFESSOR** for the Department of Medicine, Division of Cardiology. M.D. degree, Board-certified/Board-eligible in cardiovascular medicine. This position will be responsible for cardiac catheterization procedures. Salary and benefits commensurate with experience. Recruiting deadline: April 15, 1997. Anticipated starting date: July 1, 1997. Please reply to: **Dr. Barry Bertolet, Box 100277 JHMC, Gainesville, FL 32610**. *An Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

The Department of Biochemistry at the University of Alberta invites applications for two faculty positions preferably at the **ASSISTANT PROFESSOR** level (salary range \$39,230-\$55,526). The positions are an entry into the regular academic progression of the University. Successful candidates are expected to secure extramural funding to support a high quality research program in an area that complements existing strengths of the department. These include: control of protein and mRNA turnover, molecular structure and function, proteolysis mechanisms, recombination and repair, signal transduction and transcriptional control (see <http://www.biochem.ualberta.ca/>). We offer an outstanding research environment and graduate training program in these areas. An attractive start-up package, including three years of initial salary support, will be provided. Individuals with a Ph.D. or equivalent and appropriate postdoctoral experience should send a letter of application, curriculum vitae, brief description of research plans, and arrange to have three letters of reference sent to: **Dr. Vern Paetkau, Chair, Department of Biochemistry, University of Alberta, Edmonton, Alberta, Canada T6G 2H7**. The application deadline is June 30, 1997. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. If suitable Canadian citizens and permanent residents cannot be found, other individuals will be considered. *The University of Alberta is committed to the principle of equity in employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including aboriginal peoples, persons with disabilities and members of visible minorities.*

### ASSISTANT PROFESSOR OF BIOLOGY

The University of Evansville seeks a tenure-track **ASSISTANT PROFESSOR** of Biology to begin August 1997. Applicants should have a strong commitment to teaching. Teaching responsibilities include bacteriology, immunology, microbiology, and general biology. The candidate is expected to develop a research program, supervise undergraduate research projects, and provide academic advisement. A Ph.D. is required; teaching and postdoctoral experience are preferred. Send a curriculum vitae, transcripts, three letters of reference, and statements describing: 1) teaching experience and philosophy and 2) research interests and plans. To ensure consideration, send application materials by April 15 to: **Dr. Michael Cullen, Biology Department, University of Evansville, 1800 Lincoln Avenue, Evansville, IN 47722**. *The University of Evansville is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT PROFESSOR

The Department of Pharmacology and Toxicology at Wright State University School of Medicine is seeking a full-time faculty position at the **ASSISTANT PROFESSOR** level. Applicants should have a Ph.D. with a minimum of two years postdoctoral training and the potential ability to develop an independent, externally-funded research program. We seek an innovative scientist with a molecular endocrine focus and research interest in the central nervous system and neurosecretion. Expertise in peptide biochemistry and computer applications is preferred. General teaching responsibilities include pharmacology for medical students as well as participation in graduate education. The opportunity exists for interactions with a wide range of excellent faculty throughout the University. Salary will be negotiated based on professional experience and credentials. The appointment will begin on or after August 1, 1997. Applicants should submit a curriculum vitae, a statement of research interests and research plans and the names of three references to: **Mariana Morris, Ph.D., Wright State University School of Medicine, Department of Pharmacology and Toxicology, P.O. Box 927, Dayton, OH 45401-0927**. Applications should be received by May 1, 1997 and continue until the position is filled. *Wright State University is an Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** available to investigate the role of homeobox genes in skeletal and neuronal development using transgenic and knockout mice. Expertise in cell and molecular biology or neuroscience required. Please send application with curriculum vitae and three references to: **Dr. Claudia Kappen, Department of Biochemistry and Molecular Biology, Mayo Clinic Arizona, 13400 East Shea Boulevard, Scottsdale, AZ 85259, USA. Email: kappen@mayo.edu**. *Mayo Clinic Arizona is an Affirmative Action Employer and Educator.*

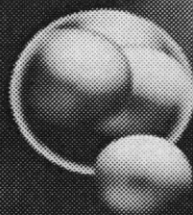
### CONFOCAL MICROSCOPY FACILITIES MANAGER

The Laboratory of Receptor Biology and Gene Expression, Division of Basic Sciences, National Cancer Institute, National Institutes of Health, Public Health Service, seeks to fill a permanent Civil Service position of Biologist, GS-401-13/14, with a salary of \$54,629 to \$83,922 per annum. The duties involve conducting collaborative research on the characterization of the subcellular trafficking of nuclear receptors; and for the management and operation of the laboratory's microscopic systems. The facility is designed to support high resolution fluorescence microscopy for investigators in the Division. State-of-art instrumentation will be available for visible and UV laser scanning confocal microscopy, as well as collection of images by optical deconvolution. Supporting computer hardware and software for image analysis will be included within the facility. The candidate should be experienced in cell biology and the study of cell structure as well as familiar with the operation of modern confocal instruments. In addition, the candidate must have the ability to implement both hardware and software adaptations to these instruments as they are developed. U.S. Citizenship is required. To apply for this position, please contact Ms. Bonnie Breeden on (301) 496-2303, to obtain a copy of the application package.

*NIH is an Equal Opportunity Employer.*

### Faculty Position Bacterial Pathogenesis Northwestern University Medical School

Qualified candidates are sought for a full-time tenure-track faculty position (Assistant Professor) in the Department of Microbiology-Immunology. Candidates should have completed postdoctoral training in the biology of bacterial pathogens, and should demonstrate the ability to investigate the basic mechanisms used by bacterial pathogens to cause human disease. Northwestern University Medical School features interactive laboratories that study bacterial, viral, and protozoan pathogenesis and immune responses to infectious agents, in addition to numerous other aspects of immunity and autoimmune responses. There is a strong collaborative environment at Northwestern University Medical School which bridges traditional departmental lines. There are also very strong Ph.D. and M.D./Ph.D. programs that attract excellent students and postdoctoral fellows. Applicants should send a statement of career plans, a complete CV, and the names, address, phone and email of three references to: Faculty Search, Department of Microbiology-Immunology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611-3008. Applications will be reviewed upon receipt, and to ensure full consideration should be received by August 1, 1997. Salary is negotiable. *Northwestern University Medical School is an Affirmative Action/Equal Opportunity Employer.* Women and minorities are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.



## Defining New Boundaries

At Amylin Pharmaceuticals, Inc., our pioneering research on the hormone amylin is redefining the boundaries of treatment for diabetes and related disorders. In collaboration with Johnson & Johnson, we are developing pramlintide, a chemical analog of human amylin. Join one of our interdisciplinary process chemistry teams and help us bring this new hormone replacement therapy to market. We currently have the following opportunity available:

### Research Associate - Physiology

Qualified individual will be responsible for performing physiological and/or behavioral experiments in a laboratory setting, with minimum supervision. Requires BS degree in the Biological Science; MS degree preferred. Some small animal surgery experience is desired; 1-3 years of experience working in a laboratory setting preferred.

Amylin has brought together an impressive team of people to advance a key scientific breakthrough in the marketplace. We offer an attractive compensation plan and an impressive benefits package, including stock option participation and 401(k). For immediate consideration, please send your resume to: HR-JG, Ref#PHY1, Amylin Pharmaceuticals, Inc., 9373 Towne Centre Drive, San Diego, CA 92121. EOE.

For more information, please visit our Web site: <http://www.amylin.com>



## GENERAL MANAGER

Join us at  
the edge of  
discovery...



Join  
us in  
Beijing.

Promega Corporation is a world leader in the biotechnology industry. Through our commitment to unparalleled excellence in science, technology and marketing, we support world-class research, win awards for product innovations and create a rewarding environment for all team members.

Currently, we seek a General Manager to work permanently for our Promega Beijing office.

The candidate will act as a liaison between Promega Beijing and our 7 other international offices and will be responsible for the continued success of the Beijing office. On a daily basis, this individual will manage account development, distributor relationships, market analysis, campaign coordination and staff development.

Qualified candidates must have a secondary degree in Molecular Biology, 3+ years' experience with marketing, sales,

dealer/distributor management and supervision (part of the candidates' experience should be obtained in the United States or Europe) and demonstrated familiarity with western business practices. Past sales experience should include pricing, customer service, processing of customer orders, inventory control, importing and exporting products and developing annual sales forecasts and plans. Past marketing experience should include understanding a competitive environment, developing marketing strategies and communication promotion plans for products, planning and executing technical workshops and seminars.

Promega offers a highly competitive salary and benefits package. For confidential consideration, please mail or e-mail your resume, along with salary requirements, to: Promega Corporation, Human Resources-China, P.O. Box 7879, Madison, WI 53707-7879. E-mail: [hr@promega.com](mailto:hr@promega.com). To find out about other opportunities at Promega please call our Career Opportunities Line at (800) 356-9526 option 9 or visit our website at [www.promega.com](http://www.promega.com).



**Promega**

Promega Corporation is an Equal Opportunity/Affirmative Action Employer

## POSITIONS OPEN

### ASSISTANT OR ASSOCIATE PROFESSOR DEPARTMENT OF NEUROBIOLOGY

The Department of Neurobiology at the University of Alabama at Birmingham (UAB), School of Medicine invites applications for a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The Department is seeking an outstanding individual who uses contemporary research methods to evaluate the development and/or function of the nervous system. Candidates utilizing imaging technologies and/or genetic approaches to study integrative function of the nervous system are encouraged to apply. Teaching responsibilities include participation in the neuroanatomical component of medical neuroscience. Attractive facilities and start-up package are available. The Department currently has a strong base of molecular and cellular neurobiologists studying problems of receptor and ion channel function and signal transduction. Send curriculum vitae and statement of research plans and have three letters of recommendation sent to: **Michael J. Friedlander, Ph.D., Professor and Chair, Department of Neurobiology, 1719 6th Avenue South, CIRC 516, University of Alabama at Birmingham, Birmingham, AL 35294-0021** by May 2, 1997. UAB is an Affirmative Action/Equal Opportunity Employer.

The Biology Department at Salisbury State University invites applicants for a tenure-track position, Plant Population Geneticist, at the rank of **ASSISTANT PROFESSOR** starting fall 1997. Ph.D., evidence of teaching excellence, and research potential required, as well as fluency in oral and written English. Although teaching of introductory and upper-level undergraduate courses for biology majors is the prime focus of this position, successful applicants will be expected to pursue scholarly activity and sponsor undergraduate research. Salary is competitive and commensurate with experience. Forward curriculum vitae, all transcripts, and three letters of reference by April 28, 1997 to: **Dr. Chris Briand, Chair, Plant Population Geneticist Search Committee, Department of Biological Sciences, Salisbury State University, Salisbury, MD 21801**. Salisbury State University is an Affirmative Action/Equal Opportunity Employer. Qualified women, minorities, and disabled persons are encouraged to apply.

**FACULTY POSITION**—Clinical Pharmacology, Jefferson Medical College—The Division of Clinical Pharmacology at Jefferson Medical College is seeking applicants for a faculty position at the **ASSISTANT PROFESSOR** level. Candidates with research interests in molecular biology and drug metabolism preferred. The successful candidate will have a Ph.D./M.D. (or equivalent) degree, and will be expected to develop an independently-funded research program, to supervise a bioanalytical laboratory, and to lecture on pharmacokinetics and related pharmacological methods. Divisional facilities include well-equipped laboratories and a clinical research unit. Submit curriculum vitae, summary of statement of research interests, and names of three references to: **Dr. Scott A. Waldman, Division of Clinical Pharmacology, Department of Medicine, Thomas Jefferson University, 132 South 10th Street (1170 Main), Philadelphia, PA 19107-5563**. Equal Opportunity Employer.

University of Florida seeks applicants for the position of **ASSISTANT PROFESSOR** in the Division of Dermatology, Department of Medicine. M.D. degree, Board-certified/Board-eligible in Dermatology. Experience in cutaneous surgery necessary. Scholarly activity and research is encouraged. Salary and benefits commensurate with experience. Recruiting deadline: April 15, 1997. Anticipated starting date: July 1, 1997. Please reply with curriculum vitae to: **Francisco Ramos-Caro, M.D., Chairman Search Committee, Division of Dermatology, Box 100277 JHMHC, University of Florida, Gainesville, FL 32610**. An Equal Opportunity/Affirmative Action Employer.

### ASSOCIATE RESEARCH SCIENTIST

Position available for a well-trained Ph.D. or M.D. with experience in bacterial pathogenesis, molecular biology techniques, animal models, and cell biology to work in multidisciplinary project involving the pathogenesis of respiratory tract infections. Exceptional skills in scientific writing required as well as four to five years of postdoctoral laboratory experience in bacterial pathogenesis. Send curriculum vitae and three letters of reference to: **A. Prince, M.D., Department of Pediatrics, Columbia University, 650 West 168th Street, BB4-416, New York, NY 10032**. Affirmative Action/Equal Opportunity Employer. We encourage applications from women and minority groups.

## POSITIONS OPEN



Agricultural  
Research  
Service  
United States  
Department of  
Agriculture

The Germplasm & Gamete Physiology Laboratory in Beltsville, Maryland is seeking a **RESEARCH PHYSIOLOGIST** to work in the area of sperm physiology with primary emphasis on the species swine and a lesser emphasis on cattle. Focus will be on sperm storage, cryopreservation and spermocyte interaction. Candidates must have experience in sperm physiology and general animal physiology, and be able to conduct and report scientific research investigations. Ph.D. is desirable. Must be a U.S. citizen. Salary is commensurate with experience (GS-12 \$45,939; GS-13 \$54,629 per annum). For more information on the research program, contact: **Lawrence Johnson, Research Leader. Telephone: 301-504-8009; Email: lajohnsn@ggpl.arsusda.gov**. For information on application procedures/forms call: 301-344-4638. Application packages in response to this advertisement should be marked D7B-097-ad17 by May 5, 1997. Mail application package to:

**USDA-ARS, BAHQOB  
6305 Ivy Lane, Room 361  
Greenbelt, MD 20770  
ATTN: Robin Terry Mazyck**

USDA is an Equal Opportunity Employer.

### RESEARCH ASSOCIATE/ ASSISTANT PROFESSOR University of Minnesota

The University of Minnesota, Department of Pediatrics, is seeking a Ph.D. for a full-time position at the rank of **RESEARCH ASSOCIATE/ASSISTANT PROFESSOR** (annually renewable). Technical skill and experience are preferred in primary cell isolation and tissue culture, especially hepatocytes, Kupffer cells and bile duct cells from mice, animal surgery; and immunological bioassays. Experience is also necessary in handling human tissue and blood specimens. The successful candidate must be able to work independently and be able to set up experiments and work out new protocols.

Essential requirements include a Ph.D. in Immunology. Must have ability to write scientific articles and research grant proposals. Last date for receipt of application is May 15, 1997. Start date: as soon as possible thereafter. Submit application and curriculum vitae to:

**Harvey L. Sharp, M.D.  
Division of Pediatric Gastroenterology and Nutrition  
Box 185 UMHC  
420 Delaware Street S.E.  
Minneapolis, MN 55455**

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

**RESEARCH SCIENTIST** position is available immediately at the Biological Microscopy and Image Reconstruction Resource, Wadsworth Center, Albany, New York ([www.wadsworth.org](http://www.wadsworth.org)). Ph.D. scientist is sought to pursue a grant-support research program in any area of Cell Biology that involves IVEM/HVEM Tomography of cells or organelles. Applicants should be experienced in cryotechniques (e.g., high pressure freezing, freeze substitution, EM of frozen-hydrated specimens) and immunocytochemistry. Minimum two years partial or full salary support (depending on level of appointment) will be provided along with full access to Core support facilities including peptide synthesis, antibody production, and Video-LM. Position includes a graduate faculty appointment. Send curriculum vitae, statement of research objectives, and the names of five references to: **Dr. C. L. Rieder, Chair: Search Committee, Wadsworth Center, Empire State Plaza, P.O. Box 509, Albany, NY 12201-0509**. An Affirmative Action/Equal Opportunity Employer.

### UNIVERSITY OF FLORIDA

Seeks an **ASSISTANT PROFESSOR** for the Department of Medicine, Division of Cardiology. M.D. Degree, Board-certified/Board-eligible in cardiovascular medicine. This position will be responsible for cardiac catheterization procedures. Salary and benefits commensurate with experience. Recruiting deadline: April 15, 1997. Anticipated starting July 1, 1997. Please reply to: **Dr. James Hill, Professor, Box 100277 JHMHC, Gainesville, FL 32610**. An Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### PLANT MOLECULAR BIOLOGIST

Entry level, **TENURE-TRACK ASSISTANT PROFESSORSHIP** in higher plant molecular biology. Ph.D. required; teaching and postdoctoral research experience preferred. See Department of Biology WWW site at: <http://bioweb.wku.edu/bd/biologyhomepage.html> for additional requirements. Review of applications begins August 1, 1997. Open until filled. Appointment effective January 1, 1998. Send résumé, three letters of recommendation, statement of research interests and experience in molecular techniques, and teaching philosophy to: **Plant Molecular Biologist Search, Department of Biology, Western Kentucky University, Bowling Green, KY 42101-3576**. Affirmative Action/Equal Opportunity Employer. Qualified minorities and women are encouraged to apply.

### THE MEDICAL COLLEGE OF GEORGIA ASSISTANT OR ASSOCIATE PROFESSOR NEUROPHARMACOLOGY/NEUROSCIENCE

A search is re-opened for a tenure-track position as **ASSISTANT OR ASSOCIATE PROFESSOR** of Pharmacology and Toxicology at the Medical College of Georgia. The successful candidate must hold a Ph.D. or M.D. degree and will be expected to establish an independent extramurally-funded research program utilizing molecular and/or cellular approaches. We desire applicants with outstanding research accomplishments in the areas of neuropharmacology, neural signal transduction, or neurophysiology, who can collaborate with investigators from several disciplines as part of a growing neuroscience community. Excellent core resource facilities exist including those for DNA sequencing, analytical chemistry, transgenic animals, and aged primates. Teaching responsibilities will be in medical and graduate courses. Competitive salary, laboratory space, and start-up funds are available. Please send a curriculum vitae, a letter describing research plans, and the names of three referees to: **R. W. Caldwell, Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA 30912-2300**. Application deadline is June 1, 1997. The Medical College of Georgia is an Affirmative Action/Equal Opportunity Employer.

### COMPUTATIONAL CHEMIST

The Molecular Research Institute invites applicants for a **STAFF SCIENTIST** position available May 1, 1997. Qualified candidates must hold a doctoral degree in computational chemistry, preferably with a molecular pharmacology and biochemistry/biophysics background. Special consideration will be given to candidates with expertise in a variety of computational methods including ab initio and semiempirical quantum chemistry and macromolecular modeling. The successful candidate will participate in molecular pharmacology and biochemistry and biophysics projects including enzyme function elucidation, structure based drug design, molecular mechanism of drug action, and rational computer aided drug design. Send résumés to: **Gilda Loew Molecular Research Institute, 845 Page Mill Road, Palo Alto, CA 94304**. The Molecular Research Institute is an Equal Opportunity Employer.

### RESEARCH ASSOCIATE

The Department of Infectious Diseases and Microbiology of the Graduate School of Public Health, University of Pittsburgh is seeking outstanding applicants for a **RESEARCH ASSOCIATE** position to study anti-HIV-1 cytotoxic lymphocyte (CTL) responses in relation to HIV-1 genetic diversity and drug therapy. The specific aims include stimulation of CTL precursor and clonal responses by dendritic cells. Candidates should have a recent Ph.D. or equivalent, experience in immunology and interest in studies of AIDS pathogenesis. The anticipated start date is immediate. The salary range is commensurate with direct experience. Send curriculum vitae, a description of research experience and interests, and a list of references to: **Charles R. Rinaldo Ph.D., A-416 Crabtree Hall, University of Pittsburgh, Pittsburgh, PA 15261**. Refer to position 08612. FAX: 412-624-4953; Email: [rinaldo+@pitt.edu](mailto:rinaldo+@pitt.edu). This NIH-supported position is limited to American citizens and permanent residents. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.



**BIGELOW CHAIR OF  
CONSCIOUSNESS STUDIES  
INAUGURAL APPOINTMENT:  
VISITING PROFESSOR**

The College of Sciences of the University of Nevada, Las Vegas (UNLV) is pleased to announce the establishment of the Bigelow Chair of Consciousness Studies. The purpose of this fully endowed Chair is to allow a series of renowned visiting scholars to create a permanent scholarly environment at UNLV for teaching and research as directly related to dissociative states of human consciousness, especially consciousness nearing and possibly surviving bodily death. The Visiting Professor's approach to teaching and research on the subject of human consciousness shall be from an evidential, scientific, and factual basis and not from a position of religious faith or subjective belief. For this reason, the inaugural Visiting Professor will reside within the College of Sciences, with possible future appointments of the Bigelow Chair in the College of Engineering or other appropriate Colleges.

The first holder of the Bigelow Chair of Consciousness Studies will be a senior scholar with a national reputation in teaching and research in consciousness studies. S/he will most likely hold a permanent faculty position at another university, with an ongoing program of research and teaching. While research interests and competencies will be a consideration, the successful candidate will have exceptional teaching skills and teaching experience in the area of consciousness studies. The inaugural holder of the Bigelow Chair will have as a primary responsibility the development of a contemporary curricular plan while offering undergraduate courses in consciousness studies.

The inaugural appointment will be as a Visiting Professor for a one year term beginning late August, 1997. Salary and benefits are commensurate with the expectations of a renowned scholar. The position of the Bigelow Chair may also include a part- or full-time assistant as necessary and appropriate. Major library holdings on the subject of consciousness are available in the University of Nevada System and in the city of Las Vegas.

Applications, consisting of a curriculum vita, a statement of teaching and research philosophy and intent, and the names and addresses of five references should be submitted to: **Chair, Bigelow Search Committee, College of Sciences, University of Nevada, Las Vegas, Box 454001, Las Vegas, NV 89154-4001**. Review of applications will begin April 15th, 1997, and continue until the position is filled. Inquiries can be directed to **Dr. Warren Burggren, Interim Dean, College of Sciences, University of Nevada, Las Vegas at 702-895-3487 or [burggren@ccmail.nevada.edu](mailto:burggren@ccmail.nevada.edu)**. Additional information on the University of Nevada, Las Vegas can be reviewed at our Website, <http://www.unlv.edu>. AA/EOE.

**UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON  
POSITIONS IN VIROLOGY AND STRUCTURAL BIOLOGY**

Postdoctoral and research assistant positions are available to carry out structure-based design of antiviral agents directed against cell attachment and replication of alphaviruses, flaviviruses, and arenaviruses. This project, funded by the Defense Advanced Research Projects Agency (DARPA), provides unique opportunities to participate in a highly focused interdisciplinary approach bringing together internationally recognized structural biologists (David Gorenstein, Bruce Luxon, Robert Fox, Stanley Watowich) from the Sealy Center for Structural Biology and virologists (Robert Shope, Alan Barrett, Judith Aronson, Scott Weaver, Norbert Herzog) from the World Health Organization Collaborating Center for Tropical Diseases. Facilities include state-of-the-art biosafety level 3 laboratories, automated sequencing, and molecular biology imaging equipment. Instrumentation available for structural studies includes Varian UNITYplus 750, 600 and wide-bore 400 MHz spectrometers, Cray J90 supercomputer, SGI multiprocessor computers, MacScience imaging plate detectors and rotating anode X-ray generators, and a Pharmacia DNA synthesizer.

Both postdoctoral (Ph.D. degree) and assistant (B.S. or M.S. degree) candidates are encouraged to apply for positions in the following areas:

**Structural and Molecular Biology:**

1. Expression, purification and X-ray crystallography of viral molecules.
2. Drug development using phage display techniques.
3. Biomolecular NMR spectroscopy (protein and nucleic acid structures), backbone modified aptamer oligonucleotide synthesis, molecular biology, combinatorial chemistry, computational biology and computer-aided drug design.
4. Production, purification, and testing of recombinant NFkB proteins, and testing of decoy oligonucleotides using recombinant NFkB proteins *in vitro* and in cell culture systems.

**Virology:**

1. Assay development and testing of decoy oligonucleotides in animal systems. Experience in tissue and virus culture, animal infections, cytokine bioassays and immunoassays is required.
2. Mapping of RNA packaging signals and other conserved sequence elements in alphavirus genomes; testing of decoy oligonucleotides in cell culture and animal models. Experience in molecular virology and animal infections is required.

Interested and qualified candidates are invited to send CV, statement of research interests/career goals, and three references (including name, address, and phone number) to: **Dr. Robert E. Shope, Department of Pathology, University of Texas Medical Branch, Galveston, TX 77555-0609. FAX (409) 747-2429. Email: [rshope@mspo6.med.utmb.edu](mailto:rshope@mspo6.med.utmb.edu)**

UTMB is an EO/AA Employer M/F/D/V.

**EXECUTIVE DEAN FOR  
ACADEMIC AFFAIRS**

New York Chiropractic College is seeking to fill the newly created position of Executive Dean. The Executive Dean will provide visionary leadership in support of academic planning, research and instructional technology and will play a key role in expanding the educational opportunities offered by the College.

Reporting to the Executive Vice President/Provost, the Executive Dean will have overall responsibility for all instructional departments as well as academic support departments. The Division currently employs 59 full-time faculty, 45 part-time faculty and 33 academic support staff.

Candidates must have 5 or more years of successful academic administrative experience, strong scholarly and teaching background, interest in the field of graduate/professional health education, and an earned Doctorate in an appropriate field.

This position will be available on July 1, 1997. Additional information on qualifications and position description is available at <http://www.nycc.edu>

**Applications should be addressed to: Chair, Executive Dean Search Committee, New York Chiropractic College, 2360 State Route 89, Seneca Falls, NY 13148. NYCC is an Equal Opportunity Employer and Educator EOE: M/F/D/V.**



**NEW YORK  
CHIROPRACTIC  
COLLEGE**



**Molecular Pharmacogenetics  
Postdoctoral Fellowship  
Mayo Medical School**

Postdoctoral Fellowship positions are available beginning immediately to participate in ongoing NIH-funded studies of the molecular basis of genetic polymorphisms for drug metabolizing enzymes that alter drug toxicity and/or therapeutic efficacy. Candidates should have Ph.D. and/or an M.D. degree, with experience in pharmacology, molecular biology and/or molecular genetics. Experience in cDNA cloning, gene cloning and DNA polymorphism detection would be helpful. Send curriculum vitae and list of three references to:

**Dr. Richard Weinshilboum  
Department of Pharmacology  
Mayo Medical School  
Mayo Clinic  
Rochester, MN 55905**

*Mayo Foundation is an affirmative action and equal opportunity educator and employer.*



## POSITIONS OPEN

**GENERAL PEDIATRICIANS**—duPont Hospital for Children of the Nemours Foundation is recruiting seven full-time General Pediatricians to work in a primary care and academic hospital setting. These positions will involve both the satisfaction of working in a private general pediatric practice as well as the stimulation of a busy inpatient service.

Skills in teaching house staff and medical students, supervising care and interacting with patients and families in a private practice setting are essential. Applicants must be Board-certified or qualified in pediatrics.

duPont Hospital for Children is a full-service tertiary care children's hospital affiliated with Jefferson Medical College. The private practice is in an excellent suburban community near Philadelphia, Pennsylvania and Wilmington, Delaware. Excellent salary and benefits: all practice costs and administrative responsibilities are borne by the hospital, medical school faculty appointment, teaching and research opportunities. For more information regarding this position, please forward your curriculum vitae to: **Alan R. Spitzer, M.D., Professor and Chairman, Department of Pediatrics, duPont Hospital for Children, P.O. Box 269, 1600 Rockland Road, Wilmington, DE 19899. FAX: 302-651-5844. Equal Opportunity Employer.**

Adolor Corporation, a discovery-based biopharmaceutical company located in Malvern, Pennsylvania, is currently conducting a search for candidates with a B.S./M.S.-level for two positions. Both require excellent communication and teamwork skills as well as the ability and willingness to perform a variety of scientific and non-scientific tasks concurrently. **RESEARCH ASSOCIATES**—*in vivo* pharmacology to conduct testing of novel analgesics. Experience in neuropharmacology, animal models of drug or substance abuse, statistical analysis of data and stereotaxic surgery is also desirable. Molecular pharmacology to develop and perform biochemical assays to discover and evaluate potential analgesic drugs. Laboratory research experience in molecular pharmacology or biochemistry and familiarity with computers is essential. Direct experience with high throughput screening, receptor binding assays, and second messenger systems is desirable. Please send résumé to: **LS-PL, Adolor Corporation, 371 Phoenixville Pike, Malvern, PA 19355.**

### RESEARCH ASSOCIATE PROFESSOR

**RESEARCH ASSOCIATE PROFESSOR** in the Department of Anesthesiology at the University of Illinois at Chicago. Non-tenure-track position for independent investigator with extensive publications in the area of anesthesia and cerebral ischemia. Candidate must also have a strong interest in human studies of the effect of Anesthetics on cerebral perfusion and metabolism. Candidates should be committed to excellence in research and training and have potential for substantial outside funding. Interested persons should address correspondence to: **Ronald F. Albrecht, M.D., Head, Department of Anesthesiology, University of Illinois at Chicago, 1740 West Taylor, m/c 515, Chicago, IL 60612, Attention: June Palmer, Ph.D.** Please include curriculum vitae, names of three references, and a brief description of research program. *Equal Opportunity/Affirmative Action Employer.*

**RESEARCH ASSOCIATE PROFESSOR** in the Department of Anesthesiology at the University of Illinois at Chicago. Non-tenure-track position for independent investigator with research interests in the area of cerebral ischemia. Candidates should be committed to excellence in research and training and have substantial outside funding. Interested persons should address correspondence to: **Ronald F. Albrecht, M.D., Head, Department of Anesthesiology, University of Illinois at Chicago, 1740 West Taylor, m/c 515, Chicago, IL 60612, Attention: June Palmer, Ph.D.** Please include curriculum vitae, names of three references, and a brief description of research program. *Equal Opportunity/Affirmative Action Employer.*

The University of Florida seeks applicants for the position of **INSTRUCTOR** in Medicine in the Division of Cardiology, Department of Medicine. M.D. degree, Board-certified/Board-eligible in Cardiology. Experience in Heart Transplantation and Echocardiography. Salary and benefits commensurate with experience. Recruiting deadline: April 15, 1997. Anticipated starting date: July 1, 1997. Please reply with curriculum vitae to: **Barry D. Bertolet, M.D., Chairman Search Committee, Division of Cardiology, Box 100277, JHMH, University of Florida, Gainesville, FL 32610. An Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

### FACULTY POSITIONS

The Morehouse School of Medicine Neuroscience Institute is inviting applications for full-time positions at the **ASSISTANT PROFESSOR LEVEL OR HIGHER**. Successful candidates will join an interactive neuroscience research group working on circadian rhythm, neurotoxicity, animal behavior, regeneration and signal transmission. Applicants will be expected to have expertise in cellular and molecular neuroscience focusing on questions of signal transduction, development, regeneration or degenerative disorders. Full support for an initial period will be provided and successful candidates will work closely with the Director of the Institute to develop their own independent, externally-funded research program. Joint appointments and teaching opportunities are available in basic science and clinical departments at Morehouse School of Medicine. Interested candidates should send their curriculum vitae, the names of three referees, a statement of research interest and representative reprints by May 15, 1997 to: **Peter R. MacLeish, Ph.D., Director, Morehouse School of Medicine Neuroscience Institute, 720 Westview Drive, S.W., Atlanta, GA 30310-1495. The Morehouse School of Medicine is an Equal Opportunity Employer.**

### THE SAMUEL ROBERTS NOBLE FOUNDATION

#### Assistant Scientist—Forage Grass Molecular Biology

The Noble Foundation is seeking applicants for an **ASSISTANT SCIENTIST** position in the Plant Biology Division. Applicants should have a Ph.D. in molecular biology, with at least two years of postdoctoral experience. Proven ability in genetic manipulation of grass species is required. Three further positions (postdoctoral and/or technical) will be available to assist the successful candidate in developing a cutting-edge program on improvement of forage grasses through molecular approaches. The successful candidate is expected to interact with the forage grass breeding program in the Foundation's Agricultural Division.

Please send a full curriculum vitae, covering letter stating research interests, and names of three references to: **Jane Nance, The Samuel Roberts Noble Foundation, P.O. Box 2180, Ardmore, OK 73402.**

*The Samuel Roberts Noble Foundation is an Equal Opportunity Employer.*

### STOCK ASSESSMENT ANALYST NATIONAL MARINE FISHERIES SERVICE (NMFS) NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION U.S. DEPARTMENT OF COMMERCE SAN FRANCISCO, CALIFORNIA

The Tiburon Laboratory of the Southwest Fisheries Science Center, NMFS, announces a vacancy for a Stock Assessment Analyst (Research Fishery Biologist, GS-11/12). The duties of the position are to analyze time series of catch biomass, age/length composition data, and other fishery independent information to determine the status of exploited west coast groundfish species. The position requires a close familiarity with the quantitative population dynamics of fishes, stock assessment computer models, statistical methods, and some knowledge of fisheries management. The candidate will interact extensively with the Pacific Fishery Management Council and its bodies. The position (W/NMF/97034.JN) is open to applicants during the two-week period March 26–April 9, 1997. Vacancy specifics available at: <http://www.rdc.noaa.gov/~webvas/>

### DRUG DISCOVERY PROGRAM

The Northwestern Drug Discovery Program (DDP) is an academic-based research and training program characterized by a balanced emphasis on structure, chemistry and biology, and by a strong interface between the basic and clinical sciences. Positions are available immediately. Successful applicants will have a Ph.D., M.D. or equivalent and documented record of productivity. Individuals are expected to develop a customized research program with a sponsor. Although highly competitive applicants in any relevant area may apply, there is a current special need for individuals with expertise in macromolecular crystallography, molecular biology and genetics, and clinical neurosciences. Submit a current curriculum vitae, names and addresses of three references, and a statement of research interests to: **D. M. Watterson, DDP, P.O. Box 118126, Chicago, IL 60611. Affirmative Action/Equal Opportunity Employer.**

## POSITIONS OPEN

### BIOINFORMATICS ANALYST

Regeneron Pharmaceuticals, Inc. is a leader in the application of molecular and cell biology to discover novel potential therapeutics for human medical conditions. We have an immediate opening for a **BIOINFORMATICS ANALYST**. Responsibilities include analysis of DNA and protein sequence data, including the results of protein sequence and motif searching. Individual should have a M.S. or Ph.D. degree with an in-depth knowledge of computational analysis and interpretation of protein sequences and analysis. Other skills needed include data management, client-server technology in a UNIX-Mac environment and algorithm design and implementation. Please send résumé, with salary requirements, to: **Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, Bin BA-SCI, Tarrytown, NY 10591. FAX: 914-347-2847. No telephone calls please. Only qualified candidates will be contacted. Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.**

### AVIAN ECOLOGIST

The Platte River Whooping Crane Trust, a non-profit organization that protects and manages habitat for migratory birds, is seeking an **AVIAN ECOLOGIST**. Advanced degree; experience in field identification and monitoring of migratory birds; strong communication skills; and commitment to conservation required. Expertise with cranes, grassland birds, endangered species, grassland and woodland management, GIS, and farm operations desirable. Responsibilities include conducting and coordinating field studies and development of the Trust's Habitat Management Plan. Full job description available. Send a cover letter, résumé, salary history, and names of three references to: **Dr. Paul J. Currier, Platte River Trust, 2550 Diers Avenue, Suite H, Grand Island, NE 68803. Telephone: 308-384-4633; FAX: 308-384-4634; Email: currier@hamilton.net. Closing date April 25, 1997.**

The Cardiology Division at Columbia University is seeking **STAFF ASSOCIATES** to conduct experiments. Applicants should have a B.S. or equivalent and at least four years of experience. Positions require the following: experience performing biochemical assays and HPLC and radioactive tracer techniques; knowledge of fatty acid and glucose metabolism, and isolated heart perfusion; ability to work with minimal supervision. Send curriculum vitae to: **R. Ramasamy, Ph.D., Division of Cardiology, College of Physicians & Surgeons, Columbia University, 630 West 168th Street, PH 10-S 405, New York, NY 10032. We take Affirmative Action toward Equal Employment Opportunity.**

### POSTDOCTORAL POSITIONS HARVARD MEDICAL SCHOOL KIDNEY DEVELOPMENT, CANCER, AND GENE THERAPY

Postdoctoral positions to 1) investigate mechanism of action of tumor suppressor genes in kidney cancer, 2) study regulation of kidney specific gene expression, and 3) design for kidney gene therapy applications. Two years of experience in at least one of the following areas essential: molecular biology, virology, liposome technology, kidney disease models, tumor biology or growth control. Permanent resident visa or U.S. citizenship essential due to funding source requirement.

Submit a curriculum vitae, copies of two to three publications, and three reference letters to:

**Vikas P. Sukhatme, M.D., Ph.D.,  
Chief, Renal Division  
Beth Israel/Deaconess Medical Center,  
Harvard Medical School  
DANA 517**

**330 Brookline Avenue  
Boston, MA 02215**

**FAX: 617-667-7843; Telephone: 617-667-2653**

**Email: vsukhatm@bidmc.harvard.edu**

*Affirmative Action/Equal Opportunity Employer*

**POSTDOCTORAL POSITION** available July 1, 1997 to participate in study of *Candida albicans* biology and pathogenesis as related to identity, expression, and function of cell wall proteins. Applicants should have a recent Ph.D. and relevant experience in protein and molecular techniques. Send résumé and names and contact information for references to: **Dr. W. LaJean Chaffin, Department of Microbiology and Immunology, Texas Tech University Health Sciences Center, Lubbock, TX 79430. Email: micwlc@ttuhsc.edu. Texas Tech University Health Sciences Center is an Equal Employment Opportunity/Affirmative Action Employer.**

# SYMPOSIUM

PARKE-DAVIS  
UNIVERSITY OF MICHIGAN

## Enantioselective Catalysis



The Third Michigan Symposium on  
Contemporary Challenges  
In Molecular Medicine



Professor E.J. Corey  
*Harvard University*  
Professor Michael Doyle  
*Trinity University*  
Professor Eric Jacobsen  
*Harvard University*  
Professor Barry Trost  
*Stanford University*

**May 9, 1997, 9 am - 4 pm**  
1800 Chemistry Building  
University of Michigan  
Ann Arbor, MI

*No Registration, Reservations or Fees Required*

Additional Information: <http://www.woster@wizard.pharm.wayne.edu>  
Ann Arbor Information: <http://www.annarbor.org/tourism/tourism.html>  
Maps of area: <http://www.umich.edu/~info/maps.html/mapstour.html>

contact: Dr. Hollis Showalter, Chemistry Department  
Parke-Davis Pharmaceutical Research  
Ann Arbor, MI 49105  
(313) 996-7028; [showalh@aa.wi.com](mailto:showalh@aa.wi.com)



ST. CHRISTOPHER'S  
HOSPITAL FOR CHILDREN



## The Bell Atlantic Endowed Chair in Pediatrics/Genetics

ALLEGHENY  
UNIVERSITY  
OF THE HEALTH SCIENCES

The Department of Pediatrics of MCP ♦ Hahnemann School of Medicine, Allegheny University of the Health Sciences, and St. Christopher's Hospital for Children are opening a search for Chief of the Section of Medical Genetics and Director of the Bell Atlantic Genetics Center for Children, a newly established, multi-disciplinary clinical and academic program devoted to research, education and care of children with genetic diseases. The selected Director will fill the Bell Atlantic Endowed Chair in Pediatrics/Genetics.

The successful candidate should have an established track record of scientific achievement in the area of molecular genetics and have the administrative and leadership ability to oversee a growing program in clinical genetics and dysmorphology, establish collaborative relationships with the Department of Human Genetics for the University and oversee undergraduate and graduate teaching, and also postgraduate training. The position carries the rank of Associate or Full Professor in the University. St. Christopher's Hospital for Children is a nonsectarian, nationally known academic medical center for children and is part of the Allegheny Health, Education and Research Foundation, a fully integrated academic health system.

Interested individuals should send their curriculum vitae or contact: **Daniel V. Schidlow, M.D., Senior Vice Chairman, Department of Pediatrics and Senior Vice President for Clinical Affairs, St. Christopher's Hospital for Children, Erie Avenue at Front Street, Philadelphia, PA 19134-1095. Phone: (215) 427-4801. Affirmative Action/Equal Opportunity Employer.**

# SYMPOSIUM



## 2nd National Symposium BASIC ASPECTS OF VACCINES

April 30 - May 2, 1997

BETHESDA, MARYLAND

### PEPTIDE & PROTEIN ANTIGENS

Jay A. Berzofsky, *Chair*  
Eli Sercarz  
Alessandro Sette  
Martin Kast

### GENETICALLY ENGINEERED VACCINES

Bernard Moss, *Chair*  
Peter Palese  
Peter Collins  
Harriet L. Robinson

### ADJUVANTS & ADJUVANT MECHANISMS

Carl R. Alving, *Chair*  
Tim R. Mosmann  
Ralph M. Steinman  
Kenneth Rock

### MUCOSAL IMMUNITY & SITE- DIRECTED IMMUNIZATION

Martin Kagnoff, *Chair*  
Kevin Kileen  
Harry B. Greenberg  
Howard Weiner

### IMPORTANT EMERGING VACCINES & STRATEGIES

Myron M. Levine, *Chair*  
John Robbins  
Stephen Johnston  
Charles Arntzen  
Gordon Dougan

For information, tel: 202 782-3248 fax: 202 782-0721  
EM: [symposium@wrair-emh1.army.mil](mailto:symposium@wrair-emh1.army.mil)  
<http://wrair-www.army.mil/symposia/dmbsym.htm>

## VOLLUM INSTITUTE SYMPOSIUM

"NEURONAL SIGNALING:  
CELL MEMBRANE TO NUCLEUS"

September 11-12, 1997 • Portland, Oregon

### MEMBRANE TRANSDUCERS

Peter Seeburg, Max Planck Inst., Univ. of Heidelberg  
Shigetada Nakanishi, Tokyo University  
Robert Lefkowitz, Duke University  
Bertil Hille, University of Washington

### CYTOSOLIC SIGNALING

Solomon Snyder, Johns Hopkins University  
Tony Pawson, University of Toronto  
Susan Taylor, University of California San Diego  
Christopher Miller (Banquet Speaker) Brandeis Univ.

### NUCLEAR RESPONSES

Michael Greenberg, Harvard University  
Michael Rosenfeld, University of California San Diego  
Eric Kandel, Columbia University

Registration Information: email to [viabrsym@ohsu.edu](mailto:viabrsym@ohsu.edu), write to Vollum Symposium L-474, Oregon Health Sciences University, 3181 SW Sam Jackson Park Road, Portland, OR 97201 or telephone (503) 494-6932



## POSITIONS OPEN

The USDA, Agricultural Research Service, Beltsville Agricultural Research Center, Plant Sciences Institute, Insect Chemical Ecology Laboratory, Beltsville, Maryland is seeking a **RESEARCH CHEMIST**, GS-1320-11/12. Salary is commensurate with experience (GS-11: \$38,330-\$49,831 per annum; GS-12: \$45,939-\$59,725 per annum). Candidates must be U.S. citizens. The position involves planning and conducting independent and cooperative research in the area of arthropod chemical ecology with special emphasis on pheromones, kairomones, synthetic attractants and repellents. In addition to the basic educational requirements, applicants must demonstrate 1) knowledge of the principles, theories, practices, methods, and procedures of organic chemistry; 2) ability to calibrate, maintain, and operate analytical instruments in order to perform measurements and analyses; 3) ability to design, plan, and conduct research and analyze and publish results; and 4) knowledge of synthetic organic chemistry. For information on the research program contact: **Dr. Jerry Klun, 301-504-6085**. For information on application procedures/forms and a copy of the vacancy announcement, contact: **Veronica Olaje at 301-344-1014**. Applications submitted in response to this advertisement must include announcement number ARS-07B-087/B-7-14, must be postmarked by April 14, 1997, and mailed to: **USDA, ARS, HRD, Beltsville/Headquarters Operations Branch, 6305 Ivy Lane, Room 361, Greenbelt, MD 20770**. *USDA/ARS is an Equal Opportunity Employer.*

**POSTDOCTORAL FELLOW.** Investigate high performance affinity chromatography of transcription factors. Chromatography, column packing, and silica coupling experience required. Candidate must be available by April 30. Submit curriculum vitae and have two references sent to: **Harry Jarrett, Department of Biochemistry, 858 Madison Avenue, University of Tennessee, Memphis, TN 38163**. Email: [hjarrett@utmem1.utmem.edu](mailto:hjarrett@utmem1.utmem.edu). *The University of Tennessee is an Equal Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans with Disabilities Act/Age Discrimination in Employment Act Employer.*

**POSTDOCTORAL POSITION** available beginning May 1, 1997. Recent Ph.D. degree in molecular biology, endocrinology or pharmacology is required. Candidates should have experience in cDNA cloning, mammalian gene expression and/or gene disruptions. Send curriculum vitae and three references to: **John J. Kopchick, Ph.D., Edison Biotechnology Institute, Ohio University, Konneker Research Laboratories, The Ridges, Athens, OH 45701**. Deadline: April 18, 1997. External grant and/or contract funded. Employment is contingent upon availability of appropriate funding. *Equal Opportunity/Affirmative Action Employer.*

## MOLECULAR EVOLUTION

A **POSTDOCTORAL POSITION** is available to study the rates and patterns of evolution in bacterial genes and genomes. Ongoing projects examine: (1) biases in substitution rates in *E. coli* and *S. enterica*, (2) the organization of bacterial genomes, and (3) the evolution of virulence attributes in *Salmonella*. Please send curriculum vitae and the names of two referees to: **Howard Ochman, Department of Biology, University of Rochester, Rochester, NY 14627**. *The University of Rochester is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** available to identify and examine erb-B2 (and other) tumor antigen-specific peptides and/or antibodies using combinatorial approaches and phage display. Experience in molecular biology and biochemistry is required. Please send curriculum vitae (with two key publications) and the names of three references to: **Dr. Susan Deutscher or Dr. Thomas P. Quinn, Biochemistry Department, University of Missouri, Columbia, MO 65211**. Applications from women and minorities are particularly encouraged. *The University of Missouri is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** available immediately to study novel human cell surface receptors, related to mouse gp49, signaling through ITIM motifs. Experience in molecular and cell biology essential. Applicants must be U.S. citizens or permanent U.S. residents and possess a Ph.D. or M.D. degree. Send curriculum vitae and three references to: **Jonathan P. Arm, M.D., Harvard Medical School, Seeley G. Mudd Building, Room 628, Boston, MA 02115**. Email: [jparm@warren.med.harvard.edu](mailto:jparm@warren.med.harvard.edu). *An Affirmative Action and Equal Opportunity Employer.*

## POSITIONS OPEN

A **POSTDOCTORAL POSITION** is available to study the functions of unconventional myosins in several systems, including *Dictyostelium* and mouse. Ongoing projects include the generation and characterization of myosin null mutants, the biochemical identification of myosin binding proteins, and the localization of myosins using both antibodies and the expression of myosin/GFP chimeras. Experience in mouse or yeast genetics, or membrane protein biochemistry is desired, but persons with solid training in protein biochemistry or molecular biology will be considered. Send curriculum vitae and the names of four references to: **Dr. John A. Hammer, Chief, Section of Molecular Cell Biology, Laboratory of Cell Biology, National Institutes of Health, 9000 Rockville Pike, 3 Center Drive MSC 0301, Building 3, Room B1-22, Bethesda, MD 20892-0301**. *NIH is an Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** in Microbiology and Food Safety, available immediately to participate with a multidisciplinary team investigating on-farm ecology of food-borne pathogens. Techniques include emerging microbiological diagnostic techniques and a wide range of ecology and pathogenic investigations. Salary range begins at \$29,000 and will be commensurate with experience. Qualified and interested candidates should send curriculum vitae and names and addresses of three references to: **Jerry R. Gillespie, Director, Food Animal Health & Management Center, College of Veterinary Medicine, Kansas State University, Manhattan, KS 66506**. Telephone: 913-532-4258; FAX: 913-532-4288. *Kansas State University is an Equal Opportunity Employer. Kansas State University actively seeks diversity among its employees.*

## POSTDOCTORAL FELLOW

Position available immediately to work on the development of metastasis-specific novel genetic markers in breast cancer. Applicants must have experience in PCR and cloning methods. Familiarity in FISH, tissue microdissection, and cell culture is a plus.

Send curriculum vitae and three references to: **Prof. B. Vikram, Chairman, Department of Radiation Oncology, Albert Einstein College of Medicine and Montefiore Medical Center, 3335 Steuben Avenue, Bronx, NY 10467** and immediately contact: **Dr. Mohan Achary, Telephone: 718-430-2245; FAX: 718-430-8635**; Email: [achary@accomm.yu.edu](mailto:achary@accomm.yu.edu) for further information. *Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** available to candidates with experience in molecular biology, pharmacology, biochemistry or developmental biology. Studies include the analysis of the actions of vitamin A and retinoic acid during development and tumorigenesis. Send curriculum vitae, names of three references, and a statement of research interests to: **Dr. Lorraine J. Gudas, Chair, Department of Pharmacology, Cornell University Medical College, 1300 York Avenue, New York, NY 10021**. *An Equal Opportunity Employer/Affirmative Action/Minorities/Females/Veterans.*

**POSTDOCTORAL POSITION** available to elucidate novel bacterial metabolism in a multidisciplinary biotechnology project supported by industry. Requires experience in bacterial enzymology, preferably with diverse species. Send résumé and brief description of research experience to: **Dr. George Wagner, Department of Agronomy, N122 Agricultural Science North, University of Kentucky, Lexington, KY 40546-0001**. Contact [gwagner@ca.uky.edu](mailto:gwagner@ca.uky.edu) or [mdavies@pop.uky.edu](mailto:mdavies@pop.uky.edu) for additional information. *Equal Opportunity Employer.*

## POSTDOCTORAL POSITION AVAILABLE

For NFR-funded studies on G-protein-coupled receptor signal transduction using surface plasmon resonance technology. Candidate should have a Ph.D. and requires expertise in protein purification and basic molecular cloning. Send curriculum vitae and names of three references to: **Dr. Samuel Svensson, Department of Pharmacology, Faculty of Health Sciences, University of Linköping, Sweden**. Email: [samuel.svensson@far.liu.se](mailto:samuel.svensson@far.liu.se).

**POSTDOCTORAL POSITION** available immediately to carry out structure-function studies of TCRs and antibodies. Experience in molecular biology and biophysical techniques desirable but not essential. Please send curriculum vitae and details of three referees to: **Dr. E. Sally Ward, Department of Microbiology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-8576**. Email: [sally@skylab.swmed.edu](mailto:sally@skylab.swmed.edu). *Equal Opportunity Employer.*

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS:** Two NIH-funded postdoctoral positions are available immediately. One position will study the role of SCL/tal gene dysregulation in T-cell leukemia; the second position will study the molecular genetic events leading to secondary leukemias, particularly those associated with topoisomerase II inhibitors. Requirements for both positions: Ph.D. or M.D., demonstrated research excellence, strong oral and written communication skills, and substantial experience in all standard molecular biology techniques; the first position requires experience with mouse models. Please send or FAX curriculum vitae and names of three references to: **Dr. Peter D. Aplan, Department of Pediatrics, Roswell Park Cancer Institute, Elm and Carlton Street, Buffalo, NY 14263**. FAX: 716-845-4502; Email: [paplan@sc3101.med.buffalo.edu](mailto:paplan@sc3101.med.buffalo.edu). *Roswell Park Cancer Institute is a Minorities/Females/Disabled/Veterans/Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITIONS** at the Heart and Lung Institute at The Ohio State University are available immediately for highly qualified applicants. Projects focus on the molecular mechanisms of vascular injury. The emphasis will be on the development of a cellular model of vascular injury through expression of mutated signal transduction proteins via gene transfer, and on the analysis of the effects of mutations on signal transduction proteins and cellular properties of endothelial cells. Applicants should have a strong background in molecular biology and cellular physiology. Send curriculum vitae and reference list to: **Pascal J. Goldschmidt, M.D., Director, Heart and Lung Institute, The Ohio State University, 514 Medical Research Facility, 420 West 12th Avenue, Columbus, OH 43210-1214**. FAX: 614-688-5778; Email: [goldschmidt1@medctr.osu.edu](mailto:goldschmidt1@medctr.osu.edu).

## POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS

Two positions are available immediately for individuals with interest in the intracellular trafficking of membrane proteins in neurons. Our work focuses on the physiological regulation of the cholinergic choline cotransporter. Experience with recombinant DNA technology, molecular cloning techniques, and signal transduction is highly desirable. Salaries are competitive and commensurate with experience. Interested candidates should send their curriculum vitae and three letters of reference to: **Dr. Robert Newkirk and/or Dr. James G. Townsel, Neuroscience Unit, Meharry Medical College, Nashville, TN 37208**.

*Equal Opportunity Employer.*

**POSTDOCTORAL POSITION:** Experience in oncogenes/G proteins/cell signaling to study the function and mechanism of transformation of the *lbc* oncogene, a multidomain regulator of the Rho small GTP binding protein which mediates actin cytoskeletal reorganization and cell proliferation via a novel signal transduction pathway. Research focuses on *lbc* control of cell-ECM and cell-cell interactions. Position requires a Ph.D. with cell/molecular/biochemistry experience and U.S. citizen/permanent resident status. Send curriculum vitae to: **Dr. D. Toksoz, Department of Physiology, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111**. Email: [dtoksoz@infonet.tufts.edu](mailto:dtoksoz@infonet.tufts.edu). *An Equal Opportunity/Affirmative Action Employer.*

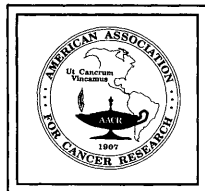
## POSTDOCTORAL RESEARCH POSITION Division of Human Genetics University of Maryland School of Medicine

A position is available immediately to join an NIH-funded project investigating the Wnt proto-oncogene signal transduction pathway. Applicants should have a Ph.D. and experience in molecular and cellular biology. Some experience in developmental biology and transgenic mouse analysis is desirable. Please send curriculum vitae and three references to: **Daniel J. Sussman, Ph.D., Division of Human Genetics, University of Maryland at Baltimore, 655 West Baltimore Street, Room 11-049, Baltimore, MD 21201**.

**POSTDOCTORAL POSITION** is available to isolate the *Rps1-k* gene that confers race-specific resistance of soybean to the fungal pathogen *Phytophthora sojae*. A second postdoctoral position is available to study the regulation of phosphoinositide-specific phospholipase C. Experience in molecular biology is required. Application by mail and fax should be addressed to: **Dr. Madan K. Bhattacharya, Division Plant Biology, Noble Foundation, P.O. Box 2180, Ardmore, OK 73402**. FAX: 405-221-7380; Telephone: 405-221-7390. *The Noble Foundation is an Equal Opportunity Employer.*

# THE AMERICAN ASSOCIATION FOR CANCER RESEARCH PRESENTS

*An Important Educational Opportunity Primarily for  
Predoctoral Students and Postdoctoral Fellows  
Pursuing Careers in Basic Cancer Research*



## MOLECULAR BIOLOGY AND PATHOLOGY OF NEOPLASIA

(A Workshop Formerly Entitled Histopathobiology of Neoplasia)

*The Edward A. Smuckler Memorial Workshop  
Supported by a Generous Grant from the National Cancer Institute*

Keystone Resort  
Keystone, Colorado  
July 6-13, 1997

- Intensive training in the histopathology and molecular biology of neoplasia.
- Twenty-eight hours of hands-on laboratory exercises directed by distinguished pathologists.
- An outstanding series of lectures on rapidly developing areas of cancer research by laboratory directors and other prominent investigators.
- Extensive written course materials that will serve as valuable references in the future.
- Waiver of registration fee and partial support for students' and fellows' lodging and subsistence expenses during the workshop.

### LABORATORY AND LECTURING FACULTY

Robert Low\*, Course Director, University of Colorado School of Medicine, Denver, CO  
Stephen Baird, Veterans Administration Medical Center, San Diego, CA  
Betty DeMasters, University of Colorado School of Medicine, Denver, CO  
Douglas Hanahan, University of California, San Francisco, CA  
Lora A. Hedrick, Johns Hopkins University School of Medicine, Baltimore, MD  
Gary J. Keloff, National Cancer Institute, Bethesda, MD  
John M. Lehman, Albany College of Medicine, Albany, NY  
Michael W. Lieberman, Baylor College of Medicine, Houston, TX  
Lawrence A. Loeb, University of Washington, Seattle, WA  
Andrea I. McClatchey, Massachusetts Institute of Technology, Cambridge, MA  
Gary J. Miller\*, University of Colorado School of Medicine, Denver, CO  
Raymond J. Monnat, University of Washington, Seattle, WA  
Harold L. Moses, Vanderbilt University School of Medicine, Nashville, TN  
Barbara A. Murphy, Vanderbilt University School of Medicine, Nashville, TN  
Stewart Sell, Albany Medical College, Albany, NY  
Patricia A. Thomas, University of Iowa Hospital and Clinics, Iowa City, IA  
Ann D. Thor, Northwestern University, Chicago, IL  
Frederic M. Waldman\*, University of California, San Francisco, CA

*\*Member of the Workshop Executive Committee*

### **APPLICATION DEADLINE: APRIL 30, 1997**

Further Information:

American Association for Cancer Research  
Public Ledger Building, Suite 826  
150 S. Independence Mall West  
Philadelphia, PA 19106-3483  
Telephone: (215) 440-9300 • FAX: (215) 440-9313  
E-mail: AACR@aacr.org



## ANNOUNCEMENT

### ZEPTEP FOR SCIENCE IN HEALTH

**BIOPTRON AG**  
Medical Scientific Seminar

### "Exploration of New Frontiers in Phototherapy"

Location:  
St. Moritz on the Park  
50 Central Park South  
New York City, NY

April 30, 1997

Hosted by:  
American Center for Immuno-Biology and Metabolism  
(ACIBM), Inc. U.S.A.  
and  
International Immuno-Biology Research Laboratory  
U.S.A.

Sponsored by:

**BIOPTRON AG**  
Switzerland

#### *Presentations*

- Phototherapy: Basic Principles and Applications
- Extracorporeal Phototherapy in the 21st Century
- Immunology and Phototherapy
- Immunology of the Skin
- Bioptron Light in Combination with Bioinformation Spectra's
- Bioptron Lamp in Venous Chronic Ulcerative Diseases
- Dendritic Cells and Phototherapy
- Polarized Light on Severe Burns and Wounds
- Light in the treatment of Seasonal Affective Disorder
- Humoral Phototransduction
- Immunomodulation Induced by Bioptron Light
- Adjuvant Therapy of Squamous Cell by Bioptron Light

Scientific Committee Chairman:  
Francis P. Gasparro, Ph.D.

Scientific Organizing Committee Chairman  
Rajko D. Medenica, M.D., Ph.D.

For further information or to request a registration form  
please contact:

**Maria Godfors**  
American Center for Immuno-Biology and Metabolism  
(ACIBM), Inc.  
8400 River Road  
North Bergen, NJ 07647  
Telephone # (201) 869-8552 or (888) 777-6604  
Fax # 869-0961

## SYMPOSIUM

**Penn State's**  
**16th Summer Symposium in Molecular Biology**  
In collaboration with the University of Georgia  
"Microbial Structural Biology: Novel Enzyme from Diverse Microbes"  
August 7-9, 1997 University Park Campus

#### **Session I — Adaptation and Stress**

Bruce Demple (Harvard)  
Robert Gunsalus (UCLA)  
Mary Roberts (Boston College)  
Patricia Kiley (University of Wisconsin)  
**Session II — Novel Enzymes Mechanisms**  
Dennis Dean (Virginia Tech)  
Rolf Thauer (Max-Planck Institute, Germany)  
David Dooley (Montana State University)  
John Dawson (University of South Carolina)

#### **Session III — Metalloenzymes**

Michael Johnson (University of Georgia)  
Steve Ragsdale (University of Nebraska)  
Robert Hausinger (Michigan State)  
Elizabeth Getzoff (Scripps Research Institute)

#### **Session IV — Biotechnology**

James Kellis (Genencor International)  
Debra Dunaway-Mariano (University of Maryland)  
JoAnne Stubbe (MIT)  
Philip Bryan (CARB, Univ. of Maryland)

**Keynote Address: Christopher T. Walsh (Harvard)**

**Plenary Lecture: Wolfgang Baumeister**  
(Max-Planck Institute, Germany)

The Symposium will feature poster sessions and large industry exhibits along with afternoon workshops for selected oral presentations. This year's program is organized by Greg Ferry, Robert Matthews, Martin Bollinger and Kamal Rashid of The Pennsylvania State University and Michael Johnson and Michael Adams of the University of Georgia.

Registration: Regular \$150, Postdocs: \$85, Graduate Students: \$45.

For more information contact Ms. Carey Shuey, Program Assistant, 108 Althouse Lab, University Park, PA 16802, phone: 814-863-1918, fax: 814-863-7024 or visit our website: [http://www.bmb.psu.edu/deptpage/Summer\\_Symposium.htm](http://www.bmb.psu.edu/deptpage/Summer_Symposium.htm) • Abstracts for posters and oral presentations are due June 30, 1997.

## CAREER Workshops

### INDUSTRIAL CAREERS IN TOXICOLOGY

Looking to reach toxicologists at every level? Place your banner ad on SCIENCE's new Career Workshop, going live on Tuesday, April 15th. Career Workshops are the first choice of scientists looking for advice on how to upgrade their skills and find jobs in their field—from entry to senior level, in industry and academia.

As part of SCIENCE Professional Network, Career Workshops are interactive online discussions featuring one new topic per month in 1997. SCIENCE Professional Network reaches more talented scientists than any other online scientific recruiting site!

Link these scientists to career opportunities in your organization via a banner ad on SCIENCE Professional Network's Career Workshops—call for rates and details on how to advertise:

**Gabrielle Boguslawski**  
Phone: 718-491-1607  
FAX: 202-289-6742  
Email: [gbogusla@aaas.org](mailto:gbogusla@aaas.org)

**SCIENCE**  
<http://www.sciencemag.org>



## MAX-PLANCK-INSTITUT FÜR MARINE MIKROBIOLOGIE

The Max-Planck-Institute for Marine Microbiology, Bremen, Germany, invites applications for a position as

### Postdoctoral scientist

in our Department of Biogeochemistry. The Department studies the geochemical and microbiological process in the sea floor as well as their regulation and function in the marine element cycles.

The candidate should have a background in biology or geochemistry and will join a research group studying marine biogeochemistry in the laboratory and on seagoing expeditions.

The position is available now and is limited to 3 years with the possibility of extension. The salary is according to the German BAT IIa/Ib.

Applications, including a curriculum vitae, a list of publications, and a short description of future research objectives are invited within one month to:

**Max-Planck-Institut  
für marine Mikrobiologie  
Prof. Dr. B. B. Jorgensen  
(Head of Biogeochemistry Dept.)  
Fax: +49-421-2028-690  
D-28359 Bremen, Germany**



The Faculty of Medicine is inviting applications for the post of

### Senior postdoctoral position

funded by the Swiss Government, will be available at the Institute of Pharmacology and Toxicology of the University of Lausanne, starting October 1st, 1997. The Institute is involved in the study of structure, function and regulation of membrane proteins acting as pharmacological receptors. Applicants must have the Swiss nationality or a "permis C" work permit. To learn more about the position and receive an application package, please contact Professor B. C. Rossier, Dean of the Medical Faculty, Rue du Bugnon 21, CH-1005 Lausanne, Switzerland.

## CHAIR OF INJURY PREVENTION (Readvertised)

This new position provides an opportunity for an outstanding scholar of international standing to make a major contribution to injury prevention research and teaching. The professor will join a dynamic multi-disciplinary team at the Accident Research Centre and will also have a part-time appointment in the Department of Epidemiology and Preventive Medicine.

The Accident Research Centre was established in 1987 as a multi-disciplinary research centre not part of any faculty. It now has a staff of 50 academic and 4 support staff engaged in a wide range of externally funded research projects, about one-third of which relate to injury prevention (domestic, sporting, rural and consumer product safety). Valuable working relationships have been developed with several university departments and the appointment of the professor will enable teaching and supervision of post-graduate research in injury prevention to be expanded.

The Victorian Department of Human Services is funding and providing support for the position of professor and secretary. The appointment will be initially for five years.

Salary: \$A81,780 per annum. Superannuation, travel and removal allowances are available. A para-clinical loading of \$A9,264 per annum may be available for a medically qualified appointee.

Specific enquiries about the position may be directed to Professor Peter Vulcan, Director, Accident Research Centre, facsimile +61 3 9905 4363.

Information on application procedures and further particulars may be obtained from Ms Bronwen Meredith, Personnel Manager (Senior Appointments), Monash University, Clayton, Victoria 3168, Australia, facsimile +61 3 9905 6857, email: [bronwen.meredith@adm.monash.edu.au](mailto:bronwen.meredith@adm.monash.edu.au)

Selection documentation may be accessed electronically on the world wide web: <http://www.monash.edu.au/personnel/recruit/snrapps/>

Applications should reach the Director of Personnel Services, Monash University not later than Wednesday 14 May 1997.



## POSITIONS OPEN

**POSTDOCTORAL RESEARCH** in the behavioral neurobiology of retrovirus-induced immunodeficiency in mice at the Department of Psychiatry, University of Mississippi Medical Center. Project is NIH-funded; salary/benefits are competitive. Curriculum vitae to: **Ian A. Paul, Ph.D., Department of Psychiatry, Box 127, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505. URL: www.fiona.umsmed.edu/~iapaul/inpi.html.** Equal Opportunity Employer, Minorities/Females/Disabled/Veterans.

**POSTDOCTORAL/RESEARCH ASSOCIATE** position, Division of Neurobiology and Behavior Research, Department of Psychiatry, University of Mississippi Medical Center. Development, implement, and publish research relating to the behavioral neuropharmacology of abused drugs, particularly drug self-administration and drug discrimination in non-human primates. The relationship between *in vitro* or *in vivo* neuropharmacology and behavior is of central interest. Ph.D. in pharmacology, neuroscience or psychology is required. Salary commensurate with experience. Send curriculum vitae, statement of research goals, and names of three references to: **William L. Woolverton, Ph.D., Department of Psychiatry and Human Behavior, The University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216.** Equal Opportunity Employer, Minorities/Females/Disabled/Veterans.

**POSTDOCTORAL FELLOW**, Yale University School of Medicine. Postdoctoral position available to examine B and T lymphocyte interactions in murine models of autoimmunity (SLE and multiple sclerosis). Experience in T cell immunology and molecular biology helpful. The position is supported in part by a NIH training grant which requires the candidate be a U.S. citizen or permanent resident. Please send statement of research interest, curriculum vitae, and reference letters to: **Mark Mamula, Ph.D., Yale University School of Medicine, 333 Cedar Street, LCI 610, P.O. Box 208031, New Haven, CT 06520-8031.** Yale University is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** available to investigate the genomic and transactivating factors involved in the brain-selective transcription of the B1-adrenergic receptor gene. Doctorate required. Technical skills in recombinant DNA, *in situ* hybridization, and/or neuroanatomy are highly desired. Send curriculum vitae, research statement, and three references to: **Dr. Curt Machida, Neuroscience, Oregon Regional Primate Research Center, 505 N.W. 185th Avenue, Beaverton, OR 97006. FAX: 503-690-5384.** Affirmative Action/Equal Employment Opportunity Employer.

**POSTDOCTORAL POSITION** available from June 1997 to study the development of new cancer vaccines with recombinant vaccinia virus approach. Requires Ph.D. with experience in molecular biology and cancer immunology. Send curriculum vitae and the names of three references to: **Dr. M. Sivanandham, Department of Surgery, St. Vincent's Hospital and Medical Center/New York Medical College, 153 West, 11th Street, New York, NY 10011. FAX: 212-604-8455.**

**POSTDOCTORAL POSITIONS** (one requires U.S. citizenship or permanent residency) are available to study control mechanisms of cytokine signal transduction and gene expression. Candidates with background in molecular biology or biochemistry should send curriculum vitae and addresses of three references to: **Dr. Yu-Chung Yang, Indiana University School of Medicine, IB540, 975 West Walnut Street, Indianapolis, IN 46202. Telephone: 317-274-7512; FAX: 317-274-7592; Email: ycyang@usa.net.**

### POSTDOCTORAL POSITIONS

Several **POSTDOCTORAL POSITIONS** are available in the Department of Pediatrics at the University of Colorado School of Medicine to study normal and mutant enzymes involved in inherited metabolic diseases. The research involves the use of microbiological, biochemical and molecular biological techniques. Send curriculum vitae, names, addresses, and telephone numbers of three references to: **Jan P. Kraus, Ph.D., Pediatrics, Box C-233, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262.** The University of Colorado is an Equal Opportunity Employer.

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available on NIH training grant for training in intracellular cytokine regulation of fibroblast function. Position requires expertise in molecular biology and cell biology. NIH requires U.S. permanent resident or citizen status. Send curriculum vitae and names of three references to: **Arnold E. Postlethwaite, M.D., Director, Division of Connective Tissue Diseases, University of Tennessee, Memphis, 956 Court Avenue, G326, Memphis, TN 38163. Telephone: 901-448-5774.** The University of Tennessee is an Equal Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans with Disabilities Act/Age Discrimination in Employment Act Employer.

**Graduate Assistantships**, CNS Pharmacology. The Division of Neurobiology and Behavior Research, Department of Psychiatry, University of Mississippi Medical Center has graduate assistant positions available. Faculty research programs focus on understanding the neurobiological and behavioral bases of mental illness, drug abuse and sleep. State-of-the-art facilities are available for research utilizing a variety of modern pharmacological methods, including neurochemistry, *ex vivo* brain imaging, molecular biology, quantitative cytoarchitectonics, electrophysiology, neuroendocrinology, and behavioral pharmacology in animal and human subjects. Positions include stipend and fringe benefits. Interested individuals should write for application materials to: **William L. Woolverton, Ph.D., Director, Division of Neurobiology and Behavior Research, Department of Psychiatry and Human Behavior, The University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216. Email: woolvert@fiona.umsmed.edu.** Equal Opportunity Employer, Minorities/Females/Disabled/Veterans.

### RESEARCH ASSOCIATES

Creative and highly motivated Endothelial Cell and Molecular Biologists are invited to apply for **RESEARCH ASSOCIATE/POSTDOCTORAL** positions available in the newly-created Institute for Gene Therapy and Molecular Medicine at the Mount Sinai School of Medicine in New York City. A major target under intensive basic research and clinical development is molecular-based therapies for primary and metastatic tumors.

Prospective candidates should forward an updated curriculum vitae, bibliography, a two-page summary of past research accomplishments and future goals, and three letters of recommendation to: **Dr. Savio L.C. Woo, Professor and Director, Institute for Gene Therapy and Molecular Medicine, Box 1496, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** An Equal Opportunity Employer. We foster diversity in the workplace.

**POSTDOCTORAL POSITION** to study cross regulation of growth factor and steroid receptor signaling pathways in human neoplasia. Candidates should have a recent Ph.D. degree with a strong background in cellular and molecular biology. Experience in protein biochemistry and signal transduction is particularly desirable. Please send curriculum vitae, summary of research interests and experience, and names of three references to: **Joseph M. Alexander, Ph.D., Neuroendocrine Unit, BUL457B, Massachusetts General Hospital, Fruit Street, Boston, MA 02114.**

### POSTDOCTORAL RESEARCH ASSOCIATE ECOLOGICAL GENETICS OF PLANT INSECT INTERACTIONS

A position to study the factors that maintain a genetically-determined plant defense polymorphism emphasizing costs and benefits of plant defense is available from July 1, 1997 until December 31, 1999, contingent upon acceptable annual progress. Applicants must have a Ph.D. in Ecology, Entomology, Botany or related discipline with experience in plant-insect interactions before hiring. Experience analyzing plant growth and reproduction is desirable. Apply by May 15, 1997 to: **Dr. J. Daniel Hare, Department of Entomology, University of California, Riverside, CA 92521. Telephone: 909-787-3858; FAX: 909-787-3086; Email: harejd@ucr.ac1.ucr.edu.** The University of California is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### NUTRITIONAL SCIENCES FACULTY POSITION UNIVERSITY OF WISCONSIN-MADISON

The Department of Nutritional Sciences at the University of Wisconsin-Madison invites applications for a position at the tenure-track Assistant Professor level. Although all areas of nutrition will be considered, we are particularly interested in applications from individuals whose research applies biochemical and molecular techniques to nutritional problems, or deals with the basic or clinical associations between nutrients and health. The successful candidate is expected to develop and maintain a vigorous independent research program, participate in the teaching of general and specialized nutrition courses at the undergraduate and graduate levels, and contribute to departmental activities. Applications, including curriculum vitae, list of publications, summary of past work and accomplishments, and a statement of plans for future research should be sent to: **Professor J. A. Marlett, Chair of Search Committee, Department of Nutritional Sciences, University of Wisconsin-Madison, 1415 Linden Drive, Madison, WI 53706, USA.** In addition, applicants should arrange for at least three letters of reference to be mailed to the same address. For full consideration, application materials should be received by July 1, 1997. The University of Wisconsin-Madison is an Affirmative Action, Equal Opportunity Employer and encourages applications from women and minorities. Names, titles and/or occupations, and addresses of applicants and nominees cannot be kept confidential.

### POSTDOCTORAL RESEARCH POSITION CLINICAL IMMUNOLOGY AND HISTOCOMPATIBILITY

The University of Colorado Health Sciences Center's (UCHSC) Clinical Immunology and Histocompatibility Laboratory has an opening for a highly-motivated individual to conduct clinical and basic immunology research in an academic science setting. The ideal candidate will have a Ph.D. in molecular biology or immunology and be skilled in gene cloning, transfection and analysis of gene expression. The **FELLOW** will receive comprehensive training in clinical immunology and histocompatibility and will interact with members of the UCHSC solid organ and bone marrow transplantation teams. In addition, the fellow will conduct basic research on T cell activation and gene expression as part of an overall program aimed at understanding signaling pathways involved in T cell anergy. Salary will be commensurate with experience.

Interested candidates should send a curriculum vitae and the names of three references to: **Brian M. Freed, Ph.D. at UCHSC Clinical Immunology and Histocompatibility Laboratory, Campus Box B164, 4200 East Ninth Avenue, Denver, CO 80262.** The UCHSC is committed to Equal Employment Opportunity and Affirmative Action.

### UNIVERSITY OF FLORIDA

Seeks **ASSISTANT PROFESSOR** for the Department of Medicine, Division of Gastroenterology. M.D. degree, two years of Internal Medicine, three years of GI fellowship. This position will include directing the motility clinic and motility laboratory for clinical evaluation of patients with dysmotility syndromes at Shands Hospital. It will also be expected to carry out meaningful clinical research in patients with dysmotility syndromes. Salary and benefits commensurate with experience. Recruiting deadline date: April 25, 1997. Anticipated starting date July 1, 1997. Please reply to: **Dr. Christopher Forsmark, M.D., Associate Professor, Box 100224 JHMC, Gainesville, FL 32610.** An Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL

Position available to study: 1) The molecular genetics of neuronal differentiation using a novel *in vitro* model system; or 2) molecular mechanisms involved in neuronal apoptosis and Alzheimer's disease. Send curriculum vitae, a brief description of research experience, and names of three references to: **Dr. Bruce Yankner, Children's Hospital, Enders 260, 300 Longwood Avenue, Boston, MA 02115. FAX: 617-738-1542.** An Equal Opportunity Employer.

**MRC**

MEDICAL RESEARCH COUNCIL

# Laboratory of Molecular Biology Career-Track Scientific Posts

The Laboratory of Molecular Biology (LMB), Cambridge has a continuing programme for recruitment of outstanding scientists at an early stage in their careers to independent positions that may lead to career scientific posts. In exceptional cases, appointments can also be made directly to career scientific posts. The goal of the laboratory is to interpret biological phenomena at the molecular level by a wide range of studies on the structure of proteins, nucleic acids, membranes, organelles and viruses, and by research on the mechanisms and control of the gene expression and the three-dimensional organisation of cells and organisms. See <http://www.mrc-lmb.cam.ac.uk>

*Applications are sought in any area of molecular biology relevant to this goal, including: structural biology, neurobiology, cell biology, developmental biology, immunology, cancer biology and gene therapy.*

Further information about these appointments can be obtained from Dr. J. E. Walker - tel: (0044)-1223-402239. E-mail: [walker@mrc-lmb.cam.ac.uk](mailto:walker@mrc-lmb.cam.ac.uk). Applications, including 2 copies of a full CV, a brief description of research interests and plans, and the names and addresses of two professional referees can be sent at any time, but preferably, in response to this advertisement, by May 2nd, 1997. **Please quote reference LMB/CT and respond to: Mr. Bob Tillson, Personnel Manager, MRC Centre, Hills Road, Cambridge CB2 2QH, U.K.**

## Three Reasons to Advertise in SCIENCE

The 2 May issue of SCIENCE offers three special reasons for you to advertise your career opportunities.

- 1. COVER STORY:** Frontiers in Microbiology. This annual cover story takes an in-depth look at trends and advances in leading edge fields of research. Scientists from all levels (B.S., M.S., and Ph.D.) will look forward to the groundbreaking news coverage in this issue.
- 2. BONUS DISTRIBUTION:** American Society for Microbiology Meeting (5-7 May, Miami, FL). Reach thousands of scientists attending the ASM meeting, in addition to our regular 160,000 subscribers.
- 3. NEXT WAVE PRINTED PAGE:** "Women Reentering the Scientific Workforce." Placed within the recruitment advertising section of the magazine, this one-page editorial feature offers enhanced visibility to your recruitment advertisement when SCIENCE readers turn to this section to read the career-related article.

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## POSITIONS OPEN

### POSTDOCTORAL POSITIONS IN fMRI UNIVERSITY OF KENTUCKY MEDICAL CENTER

The Magnetic Resonance Imaging & Spectroscopy Center (MRISC), and the Sanders-Brown Center on Aging invite applications for two positions available immediately in NIH- and NSF-funded programs using fMRI to: 1) map nigrostriatal responsiveness to dopaminergic agents in the normal, aged, and parkinsonian rhesus; and 2) map the substrates of face, emotion, and object processing in humans. The first position requires a Ph.D. (or equivalent) in the general area of MR physics, preferably with expertise in the design and processing of fast imaging and fMRI sequences. The second position requires a Ph.D. (or equivalent) in the area of cognitive neuroscience, with emphasis on human brain mapping. Experience in the design and interpretation of experiments in cognitive, and particularly emotion processing will be helpful. For additional information, please contact: **Dr. Calum Avison**; Email: [avison@mri.uky.edu](mailto:avison@mri.uky.edu) or **Dr. Lee Blonder**; Email: [lxblond@pop.uky.edu](mailto:lxblond@pop.uky.edu). Applicants should send curriculum vitae and three letters of recommendation to: **Nancy Bailey, MRISC Research, University of Kentucky AB Chandler Medical Center, 115 Davis Mills Building, 800 Rose Street, Lexington, KY 40536-0098. FAX: 606-323-1068. The University of Kentucky is an Equal Opportunity Employer.**

### POSTDOCTORAL FELLOW

The Tulane/Xavier Center for Bioenvironmental Research invites applications for the position of **POSTDOCTORAL FELLOW**, to investigate the biochemical and molecular actions of steroid hormone/growth factor receptor interactions. Mammalian and non-mammalian systems will be used to study signaling between growth factor receptors and the estrogen receptor. A Ph.D. in biochemistry or related degree is required. Experience with cell culture and standard molecular biology methods required. Salary commensurate with background and skills. Send résumés to: **Drs. McLachlan and Arnold, CBR, 1430 Tulane Avenue SL-3, New Orleans, LA 70112.**

### POSTDOCTORAL FELLOW

The Tulane/Xavier Center for Bioenvironmental Research invites applications for the position of Postdoctoral Fellow, to investigate the biochemical and molecular biology of uterine fibroids. Mammalian tissue culture and patient samples will be used to study the role of estrogens and growth factors in the development of this disease. The position will involve a close association between the basic and chemical research programs at Tulane and Xavier Universities. An M.D. or Ph.D. in biochemistry or related degree is required. Salary commensurate with background and skills. Send résumés to: **Drs. McLachlan and Arnold, CBR, 1430 Tulane Avenue SL-3, New Orleans, LA 70112.**

### POSTDOCTORAL RESEARCH ASSOCIATE

Southeastern Louisiana University (SLU) seeks applicants for a **POSTDOCTORAL RESEARCH ASSOCIATE** in the Department of Biological Sciences available June 1997. Qualifications: Ph.D. required. Experience in microbiology, molecular biology, or protein purification preferred. Duties: Protein purification and characterization of polyurethane enzymes. Cloning and molecular characterization of genes encoding polyurethane enzymes as specified by Office of Naval Research grant N00014-96-1-1229. Salary: Commensurate with experience and qualifications. Deadline for applications is May 15, 1997. Send letter of application, curriculum vitae, three current letters of reference, and a copy of ALL transcripts (originals required upon employment) to: **Dr. Gary T. Howard, Department of Biological Sciences, SLU 736, Hammond, LA 70402. SLU is an Affirmative Action/Americans with Disabilities Act/Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available to study yeast RNA polymerase. Experience in molecular biology is essential and prior experience in yeast and/or biochemistry preferred. Please send curriculum vitae and three letters of recommendation to: **Dr. Nancy Woychik, Department of Molecular Genetics & Microbiology, UMDNJ-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635. Telephone: 908-235-4534; FAX: 908-235-5037; Email: [woychina@umdnj.edu](mailto:woychina@umdnj.edu). UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.**

## POSITIONS OPEN

### UCSF AND GENEMEDICINE Cell Biology and Gene Therapy

**POSTDOCTORAL POSITION** in cell biology and gene therapy available for up to two years beginning immediately to work at the Cardiovascular Research Institute/Department of Anatomy at the University of California San Francisco (UCSF) in conjunction with GENEMEDICINE, INC. Studies, based at UCSF, will determine the cellular targets of novel plasmid-based gene delivery systems in animals and will examine the effects of experimental disease models on gene delivery *in vivo*. The successful candidate will participate in collaborative experiments involving scientists at UCSF and GENEMEDICINE. Experience in molecular biology, cell biology, histology, and a strong interest in applying novel fluorescence- and confocal microscopic techniques to study the cellular targets of gene delivery systems in mice are essential. Excellent oral and written communication skills are also required. Two or more years of previous postdoctoral experience and strong interest in endothelial cell biology are strongly desired. Please send curriculum vitae, summary of previous and current research, and names of three references to: **Dr. John McLean, Box 0130, Cardiovascular Research Institute, University of California, San Francisco, CA 94143-0130. Email: [mclean@itsa.ucsf.edu](mailto:mclean@itsa.ucsf.edu); FAX: 415-476-4845. UCSF and GENEMEDICINE are Equal Opportunity/Affirmative Action Employers.**

### POSTDOCTORAL TRAINEE POSITIONS—

Postdoctoral training positions are currently available for studies involving the actions of drugs of abuse. The areas of research are: 1) the mechanisms involved in the role of opioids and related neuropeptides in brain antinociception; 2) the role of opioids, related neuropeptides, and cytokines in temperature regulation; 3) alterations in immune responses and cytokine profiles following acute or chronic doses of opioids. The positions are part of a training program entitled "Drugs of Abuse and Neuropeptides" from the National Institute on Drug Abuse. The interdisciplinary program includes faculty from Pharmacology, Immunology, and Psychology. Trainees will become familiar with a broad range of techniques: pharmacological, biochemical, immunological, molecular, and behavioral. Must be U.S. citizen or hold green card. If interested, send curriculum vitae to: **Dr. Martin W. Adler, Department of Pharmacology, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140.**

### POSTDOCTORAL POSITION AVAILABLE

One or more **POSTDOCTORAL POSITIONS** are available at the University of Pennsylvania Health System in the Department of Anesthesia to participate in studies of the physical chemistry of anesthetic/protein interactions. This work is a collaborative effort between the Departments of Anesthesia and Biophysics/Biochemistry of the Medical School and the Department of Chemistry in the College of Arts and Sciences. Training in pharmacology, biochemistry and protein chemistry preferred. Interested applicants should send a curriculum vitae and letters of recommendation to: **Roderic G. Eckenhoof, M.D., Associate Professor of Anesthesia, Department of Anesthesia, 7 Dulles Building, University of Pennsylvania Health System, 3400 Spruce Street, Philadelphia, PA 19104-4283. Email: [reckenho@mail.upenn.edu](mailto:reckenho@mail.upenn.edu).**

### POSTDOCTORAL POSITIONS

**POSTDOCTORAL POSITIONS** are available at the University of Rochester Medical Center in the laboratory of **Alan E. Senior** in two areas: 1) Study of mechanism of ATP-driven drug extrusion by P-glycoprotein (multi-drug-resistance protein); and 2) Study of ATP synthesis and hydrolysis by  $F_1F_0$ -ATP synthase. Both research areas utilize a broad-based biochemical/molecular biology approach, candidates with training in molecular biology and enzymology/membrane function are encouraged to apply. Send curriculum vitae, with names of three references to: **Dr. Alan E. Senior, Department of Biochemistry and Biophysics, Box 712, University of Rochester Medical Center, Rochester, NY 14642; FAX: 716-271-2683.**

## POSITIONS OPEN



### POSTDOCTORAL POSITION

The Department of Virology and Immunology at Southwest Foundation for Biomedical Research has a position available immediately in molecular virology to study retroviral pathogenesis in the laboratory of **Dr. Jonathan S. Allan**. Ongoing studies include the examination of natural resistance mechanisms to SIV induced disease in nonhuman primates. Interested individuals with a Ph.D. and/or M.D., D.V.M., and a background in molecular biology should send a curriculum vitae, statement showing area of interest, and three references to: **Director of Human Resources (708), SFBR, P.O. Box 760549, San Antonio, TX 78245-0549. Email: [jallan@icarus.sfbr.org](mailto:jallan@icarus.sfbr.org). See our <http://www.sfbr.org> for information on our research activities. Equal Opportunity Employer.**

### TWO POSTDOCTORAL POSITIONS

**Prof. Ben M. Dunn**, has two openings in the structure/function of proteolytic enzymes supported by NIH grants in the following: 1) HIV-1 PR—Consequences of sequence variation; 2) Human Asp Proteases: pepsin, cathepsin D and cathepsin E; 3) Malarial Asp Proteases—enzymes of parasite food vacuole; and 4) Hepatitis C NS3 PR—the serine protease and polypeptide processing. The openings are 1) Expression, purification, characterization of recombinant proteins, methods for optimizing the refolding of proteins for crystallography; 2) Cloning, mutagenesis, and heterologous expression. Both individuals will receive training in enzymology and cross-training in the other position. Each will participate in any project in the laboratory. Applications: curriculum vitae, statement of interest/background, and two reference letters should be sent to: **Prof. Ben M. Dunn, Department of Biochemistry and Molecular Biology, University of Florida College of Medicine, Box 100245, Gainesville, FL 32610-0245. FAX: USA 352-846-0412; Email: [bdunn@college.med.ufl.edu](mailto:bdunn@college.med.ufl.edu). Equal Employment Opportunity/Affirmative Action College.**

### POSTDOCTORAL FELLOWSHIPS IN PHYSIOLOGICAL GENOMICS

We are seeking candidates to begin an exciting career studying the role of genes (channels, ion pumps, signaling enzymes, transcription factors, etc.) in mediating physiological and pathophysiological function in mammalian cells and gene manipulated mice. These positions are supported by a multi-laboratory NIH training grant and are available immediately. Multidisciplinary training is designed to prepare fellows to investigate the molecular basis of physiological functions. The Department of Molecular and Cellular Physiology is one of the top funded programs in the use of molecular approaches to study physiological processes. Interested U.S. citizens and permanent residents should send their résumé and three letters of reference to: **David E. Millhorn, Ph.D., Professor and Chairman, Department of Molecular and Cellular Physiology, University of Cincinnati, P.O. Box 670576, Cincinnati, OH 45267-0576.**

**POSTDOCTORAL POSITION** to study regulation, expression and function of genes for recently purified and cloned 2,3,7,8-tetrachlorodibenzo-*p*-dioxin-induced avian cytochrome P450s, CYP1A4 and IA5. These enzymes have biochemical, developmental, toxicological and evolutionary interest. Project includes characterization of gene promoters and of heterologous expressed and native proteins. Extensive molecular biology experience required. Experience in protein kinases or phospholipases also useful. U.S. citizens and permanent residents. Send curriculum vitae and three references to: **Arleen Rifkind, M.D., Department of Pharmacology, Cornell University Medical College, 1300 York Avenue, New York, NY 10021.**

Senior **POSTDOCTORAL FELLOWSHIP** opening for Ph.D. in Molecular Biology. Successful candidate will have completed at least one postdoctoral in gene therapy. Requirements include experience in viral and non-viral vector for *in vivo* gene transfer and gene transfer techniques in mammalian cells, good publishing record, and good writing skills. Salary and benefits competitive; possible long-term position. Send résumé, cover letter, and the names of three references to: **Ms. C. Farrell, P.O. Box 7210, Loma Linda, CA 92354.**

**ARY FRAUZINO FOUNDATION**, associated with the largest cancer center in Brazil, is seeking a Scientific Director for a new Cancer Research Center. Candidates are expected to assume a leadership position in the creation and development of an internationally competitive cancer research program.

We are seeking an individual with acknowledged scientific and management skills in basic, clinical, or epidemiological cancer research. The successful candidate should be eligible for academic appointment to the rank of Professor and have:

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- the ability to facilitate the training of graduate, postgraduate and postdoctoral students; and
- the ability to represent INCA in cancer research locally, nationally, and internationally.

The candidate's primary nationality and language will play no role in the selection. Salary will be commensurate with the candidate's qualifications and international standards.

Correspondence, including a C.V., by interested candidates should be addressed, by June 30, to:

**Fundacao Ary Frauzino**

**Rua dos Invalidos, 212/8 andar**

**20231-020, Rio de Janeiro, RJ, Brazil**

**c/o: Dr. Luiz Fernando S. Candiota**

#### ANNOUNCEMENT

**The Wageningen NMR Centre offers:**

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**E-mail:** [wnmrc@alg.mf.wau.nl](mailto:wnmrc@alg.mf.wau.nl)

**Address:** Wageningen NMR Centre, Wageningen Agricultural University, Dept. of Molecular Physics, P.O. Box 8128, 6700 ET Wageningen, The Netherlands

**Fax:** + 31.317.482725

Forschungszentrum Karlsruhe  
Technik und Umwelt



The Karlsruhe Research Center and the University of Heidelberg invite applications for the positions of

## **Director of the Institute of Toxicology**

and

## **Professor of Environmental Toxicology**

at the Faculty of Medicine of the University of Heidelberg.

The Institute of Toxicology of the Karlsruhe Research Center performs research on the health impacts of environmental and technical noxious substances, such as dusts, gases or heavy metal compounds. Complex cell models and modern methods of molecular and cellular biology are applied for this purpose. The Institute also has a Division of Biophysics which develops complex tissue models and investigates the biomedical influence of electrical fields. The institute supports the projects of "Medical Technology" and "Low-Pollutant/Low-Waste Processes" run at the Karlsruhe Research Center. Further particulars may be obtained from its Internet homepage (<http://www.fzk.de>).

The candidate should have experience and major interest in medical or biomedical research and molecular biology. We are particularly interested in an established scientist of highest standing in the area of environment-related human toxicology who will be able to implement a modern toxicological research concept and to study pollutants in various substance cycles and evaluate their risks for human health.

Candidates should have an excellent scientific standing with proven leadership qualities and willingness to interdisciplinary collaboration. Candidates must have a professorial or equivalent degree as well as experience in lecturing. The salary will be based on C4.

*Applications from women are strongly encouraged.*

Applications should be addressed to **Prof. Dr. Manfred Popp, Chairman of the Executive Board of the Karlsruhe Research Center, P.O. Box 3640, D-76021 Karlsruhe, Germany.** Closing date: 6 weeks upon publication.

## POSITIONS OPEN

Plant-herbivore interactions **POSTDOCTORAL POSITION** is available (two years or more duration) September 1, 1997 to study the interactions of golden-rods or oaks, gall-inducing insects, and natural enemies (*Evolution*, 50:777-786, 47:1696-1710, 46:1674-97, *Oecologia*, 104:52-60, 90:323-332). Areas of interest include host-plant formation/speciation, plant resistance particularly 2° chemistry, herbivore impacts on hosts, population regulation, or genetics. Applicant review begins May 2. Send curriculum vitae and have three references sent to: **Dr. Warren Abrahamson, Department of Biology, Bucknell University, Lewisburg, PA 17837. Email: abrahamsn@bucknell.edu.** Bucknell University encourages applications from women and members of minority groups. Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** in Neuroscience available immediately to study mechanisms of signaling in olfactory receptor neurons, as part of a program grant studying biological principles of olfaction and development of artificial olfactory systems. Background in biochemistry or fluorescence imaging desirable. Please send curriculum vitae and names of three references to: **Barbara R. Talamo, Department of Neuroscience, Tufts Medical School, 136 Harrison Avenue, Boston, MA 02111. FAX: 617-636-7413.**

## MEETING

**SPINAL DRUG DELIVERY 1997.** May 16-18, 1997, Del Mar, California. Meeting focuses on anatomy of spinal cord, kinetic, and preclinical safety evaluation of spinal drugs. Contact: **Tony Yaksh, Ph.D., c/o Professional Conference Management Inc., Telephone: 619-565-9921; FAX: 619-565-9954, or see website: <http://yakshlab.ucsd.edu>.**

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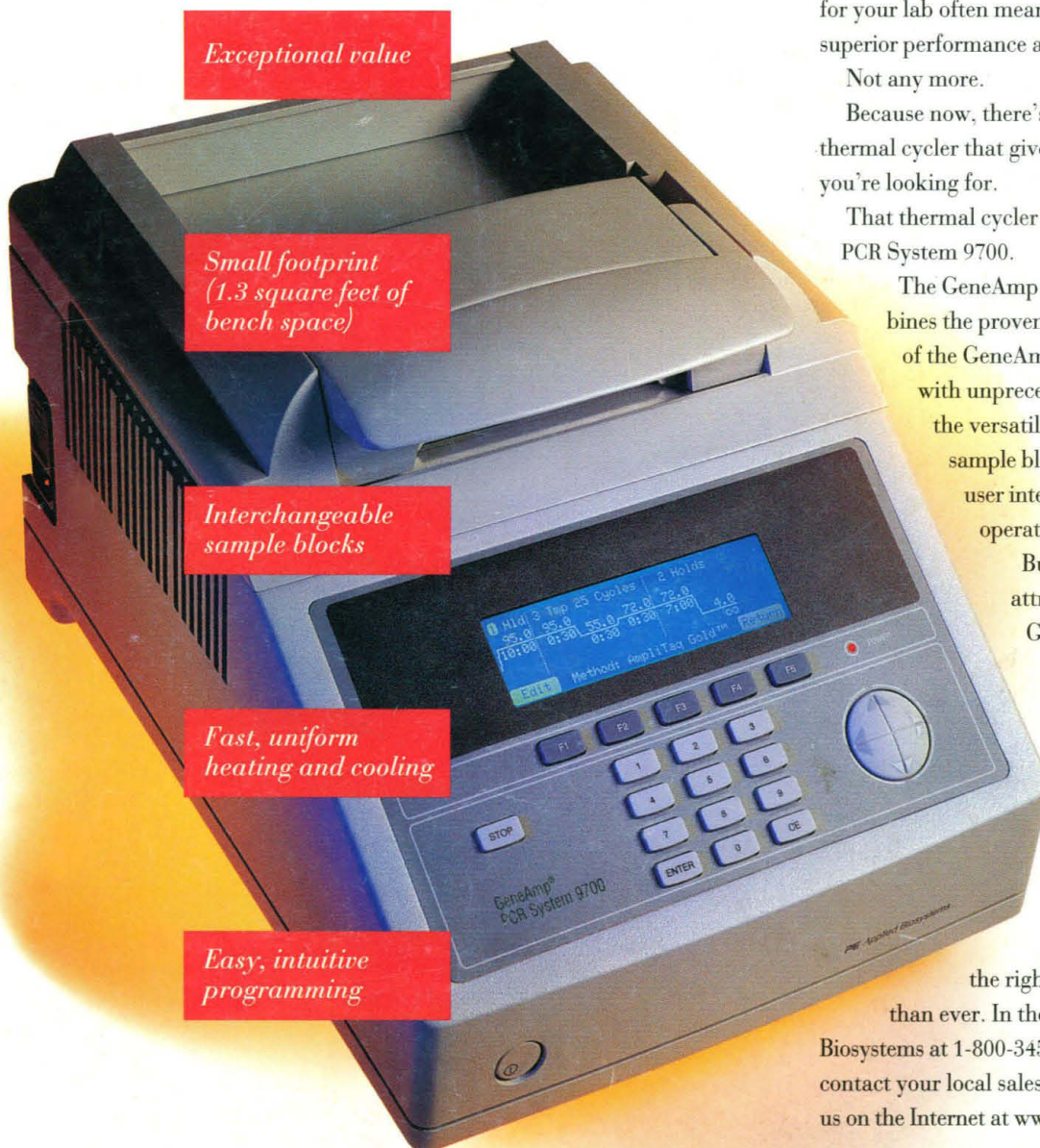
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