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Recruitment Advertising Manager  
Telephone: (212) 496-7704  
FAX: (202) 289-6742

**Debbie Cummings**  
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For **GLOBAL CAREER OPPORTUNITIES** display advertisements, turn to pages 1023, 1043, and 1045.

## 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.

**Estimates:** SCIENCE will provide a cost estimate for line ads. This is an approximate cost only. Allow for variation between estimated lines and actual typeset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment.

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.

**SCIENCE Professional Network:** Unless otherwise instructed, every classified advertisement submitted for publication in SCIENCE is automatically posted on SCIENCE's on-line classified advertising service, SCIENCE Professional Network, at no additional charge.

<http://www.sciencemag.org>

### Mail, FAX or Email materials to:

SCIENCE Classified Advertising  
1200 New York Avenue, N.W., Room 911  
Washington, DC 20005  
FAX: 202-289-6742

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



### ASSISTANT PROFESSOR MOLECULAR/CELL BIOLOGY

The Department of Natural Sciences at the University of North Florida invites applications for a **TENURE-TRACK** position beginning August 1997. A Ph.D. in eukaryotic molecular or cell biology is required. Applicants must demonstrate a strong commitment to undergraduate teaching and the ability to conduct meaningful research involving undergraduates. Responsibilities include teaching a major's course in molecular and cell biology and an introductory biology course. Postdoctoral experience and the ability to procure external funding are valued assets. A letter of application, curriculum vitae, concise statements of teaching and research interests, undergraduate and graduate transcripts, and three letters of reference should be sent to: **Joseph A. Butler, Biology Search Committee, Department of Natural Sciences, University of North Florida, Jacksonville, FL 32224-2645**, by postmark deadline January 6, 1997. The University of North Florida is an Equal Opportunity/Equal Access/Affirmative Action Institution. Individuals who need reasonable accommodations to participate in the application/selection process must notify the Employment Area at the address and telephone number listed above a minimum of five working days in advance of the interview.

### UNIVERSITY OF ARKANSAS Undergraduate Education

The Department of Biological Sciences invites applications for a **TENURE-TRACK** position as a **SPECIALIST** in Biology Education to strengthen a progressive and vital undergraduate teaching program. We seek a colleague with a doctorate, postgraduate training in the biological sciences, and demonstrated experience in progressive methods (e.g., computer-based learning) for teaching undergraduate biology courses. This faculty member will work with other faculty to revitalize and update departmental instruction at the undergraduate level. In addition to teaching duties, the successful candidate will be expected to participate in the writing of training and instruction grants, publish in pedagogical journals, and participate in the graduate program. Competitive salary, and start-up. Initial appointment commensurate with professional experience. The department includes over 600 undergraduate majors, 70 graduate students in doctoral and Master's programs, and 1400 students in introductory courses. More information on the department and University can be obtained at <http://www.uark.edu>. Application review to begin January 1, 1997 for a starting date of August 18, 1997. Applications to consist of cover letter; curriculum vitae; unofficial transcripts; and statement of teaching experience, philosophy, and interests. Applicants should arrange for letters from three referees. Apply to: **Dr. Douglas Rhoads, Chair of Faculty Search Committee, 601 SCEN, University of Arkansas, Fayetteville, AR 72701**. Email: [drhoads@comp.uark.edu](mailto:drhoads@comp.uark.edu). The University of Arkansas is an Equal Opportunity/Affirmative Action institution. Applicants must have proof of legal authority to work in the United States at the time of hire. The Department is especially interested in applications from qualified candidates who would contribute to racial, ethnic, and gender diversity.

### FACULTY POSITIONS YALE UNIVERSITY

#### Department of Molecular Biophysics and Biochemistry

The Department of Molecular Biophysics and Biochemistry seeks applicants for positions at the **ASSISTANT PROFESSOR** level. Our department, which is located in both the Faculty of Arts and Sciences and the School of Medicine of the University, spans a broad range of areas including biochemistry, biophysical chemistry, structural biology, molecular biology, and molecular genetics. Applications should include a curriculum vitae, a statement of research interests, three letters of reference, and reprints or preprints. Completed applications should be sent to: **Faculty Search Committee, Department of Molecular Biophysics and Biochemistry, Yale University, 260 Whitney Avenue, P.O. Box 208114, New Haven, CT 06520-8114**. Telephone: 203-432-5593. Application deadline: December 1, 1996.

Yale University is an Affirmative Action/Equal Opportunity Employer. Applications from women and members of minority groups are encouraged.

## POSITIONS OPEN

### FOREST ECOLOGIST

The Appalachian Environmental Laboratory (AEL) of the University of Maryland System Center for Environmental and Estuarine Studies solicits applications for a tenure-track **ASSISTANT PROFESSOR** in forest ecology to further enhance its research initiative in Landscape Ecology and Watershed Dynamics. Candidates with interests in soil nutrient/organic matter dynamics, soil/vegetation/climate interactions, or effects of disturbance or stress (e.g., land use change, climate change, atmospheric deposition, etc.) on forest ecosystem dynamics are preferred; candidates should have experience in the use of modeling, remote sensing/GIS, or other appropriate technologies for extrapolating results from local to landscape scales. The successful candidate must have completed a Ph.D. at the time of appointment and must demonstrate the potential for generating external research funding and working collaboratively in a multidisciplinary research program focused on the Chesapeake Bay watershed; candidates with post-doctoral research experience are preferred. AEL faculty are also expected to participate in graduate education.

An application letter, curriculum vitae, statement of research and teaching interests, selected reprints, and a list of four references (name, address, telephone, fax, and Email) should be sent by December 13, 1996 to: **Dr. Keith N. Eshleman, Chair, Forest Ecology Search Committee, Appalachian Environmental Laboratory, Gunter Hall, Frostburg, MD 21532**. The University of Maryland is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.

### TENURE-TRACK ASSISTANT PROFESSOR MOLECULAR BIOLOGIST TUFTS UNIVERSITY

The Department of Biology invites applications for a position to begin September 1997. A doctoral degree, postdoctoral experience, and a record of research productivity are required. Teaching responsibilities include courses in molecular biology at the undergraduate and graduate levels and contributions to team-taught courses in the department. The successful candidate will be expected to establish and maintain an active research program with extramural funding involving graduate and undergraduate students. Candidates with successful experience teaching and mentoring students from under-represented racial/ethnic groups and women are encouraged to apply. Applicants should submit a curriculum vitae, three recent publications, and statements of research interests and teaching experience, and should have three letters of reference sent to: **Chair, Molecular Biology Search Committee, Department of Biology, Tufts University, Medford, MA 02155**. Review of applications begins December 20, 1996. Tufts University is an Equal Opportunity/Affirmative Action Employer. Members of under-represented groups (people of color, persons with disabilities, Vietnam veterans, and women) are strongly encouraged to apply.

### FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Pharmacology at University of California, Irvine (UCI) invites applications for a tenure-track faculty position at the level of **ASSISTANT PROFESSOR**. We seek a scholar with a proven record of research accomplishment in molecular biology who has an interest in the function of brain neurotransmitters and receptors. Special consideration will be given to candidates with expertise and publications in gene "knock-out" procedures. Other qualifications include an M.D. and/or Ph.D. in pharmacology or a related field and an interest and talent for teaching. Curriculum vitae, references, and a summary of research interests should be sent to: **Prof. O. Civelli, Chair Search Committee, Department of Pharmacology, College of Medicine, University of California, Irvine, Irvine, CA 92697-4625**. UCI is an Affirmative Action/Equal Opportunity Employer.

**ASSOCIATE PROFESSOR** of Biological Chemistry at Finch UHS/Chicago Medical School. Tenure-track appointment in the area of protein structure/function including mechanistic, spectroscopic, or other physical biochemical approaches on receptors, growth factors, binding proteins, etc. Candidates must have an established, independent research program. Excellent research environment and modern facilities are located in a pleasant North Shore suburb. Send curriculum vitae, names of references, description of research, and statement of current funding to: **Dr. K. E. Neet, Chairman, Department of Biological Chemistry, Finch UHS/Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064**. An Equal Opportunity/Affirmative Action Employer.



**FONDATION ARES-SERONO**  
**THE ARES-SERONO FOUNDATION**

## **The Ares-Serono Foundation Fellowships in Biomedicine**

### **1997 Award Announcement**

#### **FELLOWSHIPS IN IMMUNOLOGY**

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Two Fellowships will be awarded by The Ares-Serono Foundation for postdoctoral training pertaining to studies in the field of immunology. The grants are awarded based on an international competition. The applications submitted should focus on research areas of neuroimmunology and autoimmunity. Fellowships may be held at any academic or research institution with appropriate degree programs.

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#### **Fellowship Terms**

- Full-time postdoctoral training
- 2 years of support
- USD 40,000 annual grant towards expenses for postdoctoral training

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#### **Eligibility**

- Preference will be given to candidates applying for their first postdoctoral training
- Applicants must have completed his/her PhD or MD degree no later than the start date of the fellowship
- Ability to communicate fluently in English (verbal and written)

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#### **Schedule**

Application deadline: February 28th, 1997  
Grants announced: June 30th, 1997  
Fellowships start: October 1997

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#### **For the Application Form and Eligibility Guidelines, please contact:**

Maria Grazia Cali  
Secretary of the Board  
PO Box 7228  
00100 Rome (Nomentano), Italy  
Fax +39-6-70384577  
Internet address: <http://www.serono.ch>  
E-mail address: [ares-serono.foundation@pn.itnet.it](mailto:ares-serono.foundation@pn.itnet.it)

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## Surface Chemist

Surface Chemist sought for fabrication of patterned molecular surfaces for applications in biological sensors and diagnostic arrays. Candidates should possess a Ph.D. in Chemistry, Materials Science, or equivalent discipline. Experience with organosilane self-assembled films, microlithographic and non-lithographic patterning processes, as well as surface analytical chemistry is preferred. (Code 2397)

## Cell Biologist

Cell Biologist sought for the development and application of cell culture techniques for biosensor and high-throughput biological diagnostic applications. Candidates should possess a Ph.D. in Cell Biology or equivalent discipline. Experience in cell surface receptors, cell adhesion molecules, expression of inflammatory or regulatory cytokines and growth factors, and/or controlling cell cycle events will be given preference. (Code 2398)

## Additional Positions

Ph.D. level candidates are also sought for various postdoctoral positions in the two research areas: **Biologist/Biomaterials Scientist** to develop tailored materials for angiogenesis, cell differentiation, and improved biocompatibility; **Surface Chemist** with Inorganic or Organic specialization to develop lithography processes for nanoelectronic/quantum device fabrication. (Code 2399)

GEO-CENTERS, INC. offers a highly competitive salary, generous benefits and relocation assistance. Candidates should forward their resume, salary requirements and references to: **GEO-CENTERS, INC., 10903 Indian Head Highway, Fort Washington, MD 20744, Attn: Deborah Hall-Greene/Code \_\_\_\_\_.**



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## CALIFORNIA INSTITUTE OF TECHNOLOGY Division of Geological and Planetary Sciences

### The California Institute of Technology announces two fellowships in earth and planetary sciences: **O.K. EARL POSTDOCTORAL FELLOWSHIP** **TEXACO POSTDOCTORAL FELLOWSHIP**

These awards are from funds endowed by ORRIN K. EARL, JR. and by the TEXACO PHILANTHROPIC FOUNDATION. Each fellowship carries an annual stipend of \$34,000 and offers a research expense fund of \$1,000 per year and one-way travel to Pasadena. The duration of each appointment will normally be two years, contingent upon good progress in the first year, and beginning with the 1997-98 academic year. Fellows are eligible to participate in Caltech's health and dental program.

These fellowships have been established to support the research of scientists typically within two years after receipt of the Ph.D. The intent of the program is to identify and support innovative and creative work in the earth and planetary sciences, with particular emphasis on interdisciplinary work. Applicants with training in physics, chemistry, biology, or computer sciences are urged to apply. The Caltech faculty is currently active in geobiology, geochemistry, geology, geophysics, petrology, seismology, and atmospheric and planetary sciences. It is expected that each fellowship holder will be hosted by a division professor (designated by the division chairman) who will contribute to the fellowship support both financially and by providing intellectual guidance.

Application forms may be obtained by writing to **Prof. E.M. Stolper, Chairman, Division of Geological and Planetary Sciences, Mail Code 170-25, California Institute of Technology, Pasadena, California 91125 (email: stover@gps.caltech.edu).**

**COMPLETED APPLICATIONS WITH REFERENCES SHOULD  
ARRIVE AT CALTECH BY MONDAY, JANUARY 27, 1997.**

Fellowship candidates will automatically be considered for other available postdoctoral positions at Caltech in their fields of interest.

*Caltech is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.*

## Senior Vice Provost for Research and Chief Research Officer Clemson University Clemson, SC

Clemson University, a land-grant university and a Carnegie Class 2 research university that averages \$52 million annually in awards for sponsored research, invites applications and nominations for the position of Senior Vice Provost for Research and Chief Research Officer. We are seeking an individual who has a record of significant accomplishments in research, substantial experience in the administration of research programs, demonstrated experience with development and promotion of major research initiatives requiring federal and/or other externally funded support, and strong interpersonal skills.

Typical responsibilities include:

- Administering the Office of Sponsored Programs, central research facilities, research compliance affairs, and the intellectual property/technology transfer program;
- Serving as institutional signature authority for sponsored programs;
- Consulting with and mentoring faculty regarding their research interests;
- Creating programs to generate increased funding and to diversify sources of funding;
- Formulating and implementing unique research opportunities where Clemson University would assume a leadership role among its peers in the State and the Nation;
- Representing Clemson University's interests at national institutes and foundations; federal and state legislative bodies; and governmental agencies, industry, and research consortia within the US and abroad.

The individual must hold an earned doctorate and be tenurable within an academic unit of Clemson University. Salary will be commensurate with experience and qualifications. The full position description is available upon request. Nominations should include name and address of the nominee and a letter addressing the qualifications of the nominee for this position. Applicants should submit a letter of interest, a statement of research leadership philosophy, and a resume along with names, addresses, phone numbers, and e-mail addresses of five references to: **Dr. R. Larry Dooley, Chairperson, SVP/CRO Search Committee, 300E Brackett Hall, Clemson University, Clemson, SC 29634-5701, Phone: 864-656-5562, FAX: 864-656-4466, e-mail: dooley@ces.clemson.edu.**

Review of applications will begin January 15, 1997 and continue until the position is filled.

*Clemson University is an Equal Opportunity/ADA/Affirmative Action Employer and strongly encourages applications from minorities and women.*

## Research Opportunity Available in Fisheries Science and Economics

The National Research Council (NRC) is accepting applications for Postdoctoral Research Associateship awards tenable at the Laboratories of the National Marine Fisheries Service's Northeast Fisheries Science Center located in Woods Hole, MA; Narragansett, RI; Milford, CT; Sandy Hook, NJ; and Washington, DC.

Award opportunities exist in the following areas: Fisheries Biology, Fisheries Oceanography, Marine Mammal Ecology, Ecosystems Modeling, Biometrics, Aquaculture, Systematics of Marine Organisms and Economics.

Depending on research area, the NRC awardee will work at one of the five laboratories designated above. Annual stipend for recent Ph.D. recipients is \$34,000. Each award is for one year with possible renewal for a second year. Support is provided for relocation and limited professional travel, and a comprehensive health insurance program is offered.

**For further information contact:**  
**Dr. George Grice**  
**Northeast Fisheries Science Center**  
**166 Water Street**  
**Woods Hole, MA 02543**  
**Fax: (508) 495-2258**

**Applications are accepted by the NRC on a continuous basis throughout the year. Those postmarked by January 15, 1997, will be reviewed in the late February competition.**

**For application materials contact:**  
**NATIONAL RESEARCH COUNCIL**  
**Associateship Programs**  
**(TJ-2114/NA)**  
2101 Constitution Avenue, NW  
Washington, DC 20418  
FAX: (202) 334-2759  
EMAIL: rap@nas.edu

## BS/MS Scientist Cancer

We seek a dedicated, self-motivated, research-oriented individual to join our anti-cancer team in their search for novel anti-cancer drugs. The ideal candidate will have basic knowledge of cellular and molecular biology, enzyme biochemistry and be proficient with the use of cell culture techniques, cell growth assays, protein/DNA/RNA analyses and the handling of radiochemicals. The individual must have knowledge of text and graphic programs, data calculations and spreadsheet applications for Macintosh or PC. Demonstrated research experience in the areas of Signal Transduction (cellular proliferation, differentiation and/or apoptosis), Cancer Biology or Biochemical Pharmacology (in vitro and in vivo) is desired. BS or equivalent with a minimum of 2 years' research experience required. A MS with drug discovery/research experience and a publication record are preferred. **Ad Code: 2022**

## Ph.D. Allergy and Respiratory

We are seeking a Research Scientist with an in vivo focus to join our drug discovery team. You will join a productive multidisciplinary team whose interests encompass pharmacological manipulation of the biochemical mechanisms underlying allergy, asthma and chronic bronchitis. While we are seeking an innovative individual with a Ph.D. and 3 years' prior research experience related to respiratory or allergic disease mechanisms, comparable training in any number of disciplines may be acceptable. **Ad Code: 2019**

## Ph.D. General Pharmacology

We are seeking a creative scientist to participate in the discovery and characterization of drugs for the treatment of human disease. The successful candidate will work with a talented multidisciplinary team to broadly characterize general pharmacological properties or compounds across physiological systems. Candidates should have a broad background with in vivo physiological techniques including, but not limited to, respiratory, endocrine, neuroscience or behavioral physiology. This position requires a Ph.D. and 2 or more years' postdoctoral experience, and a strong publication record. Previous experience in a General Pharmacology/Safety Pharmacology group a plus. **Ad Code: 2006**

## Ph.D. Molecular Biology

We currently have 2 project teams seeking experienced Molecular Biologists: one in atherosclerosis, the other in neurodegeneration and psychotherapeutics. Responsibilities for these positions include supervising a laboratory which contributes to our programs by using molecular biology techniques to generate and validate novel targets, screens, cell-based models and animal models. Qualified candidates must possess a Ph.D. and 2 years' postdoctoral experience or equivalent in relevant field, and a strong publication record. Candidates should have a broad background in molecular techniques such as cDNA synthesis, library construction and screening, PCR, protein expression, computer analysis of nucleic acid sequences and cell culture. Experience in atherosclerosis or molecular neuroscience is desirable, but not required. **Ad Code: 2007**

## Human Resources Generalist

We are seeking a Human Resources professional with a high degree of flexibility and self-motivation. This individual will develop a partnership with scientific R&D professionals to enhance individual and organizational effectiveness by utilizing contemporary HR management skills. Qualified candidates must have a BS (or equivalent) and a minimum of 3 years' HR experience, preferably in a research environment. MS preferred. **Ad Code: 2023**



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Heard  
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Know Us.

*Pfizer scientists are involved in some of the most critical research in the world today. As a Fortune 100 company, we have established a product pipeline that is unparalleled, and an intellectual, collaborative environment that inspires scientific achievement. Join us, and participate in creating innovative solutions to disease and illness.*

*In addition to a fast-paced, yet collegial environment, we offer very competitive salaries and excellent benefits including relocation assistance. For confidential consideration, please forward resume suitable for electronic scanning (i.e., eliminate italics, bullets, bolds, underlines and staples) to: Employee Resources, Pfizer, Inc., Job Code \_\_\_\_\_, Central Research Division, Eastern Point Road, Groton, CT 06340. For more information about Pfizer, see us on the Internet at: <http://www.pfizer.com>. We are an equal opportunity employer M/F/D/V.*



## PPL Therapeutics

### Molecular Biologist - Stem Cell Research Group

PPL Therapeutics is a rapidly growing international biotechnology company at the forefront of developing transgenic technology leading to the production of therapeutic proteins in the milk of livestock. It is presently engaged in an advanced and successful stem cell program and seeks the addition of an experienced molecular biologist. The molecular biologist will be expected to develop and lead a team devoted to genetic manipulation of livestock stem cells. The successful applicant will have at least three years of postdoctoral experience in gene construction, transformation, and expression in eukaryotic cells.

PPL can offer a stimulating environment in a rapidly developing field of new technology. The company is located in pleasant rural surroundings at the Virginia Tech Corporate Research Center and will provide an attractive remuneration package commensurate with experience.

If you have the relevant experience and wish to be considered for the above position, please write with full resume including the names and addresses of two references and your current salary to:

**J.D. Cooper, Ph.D.**  
General Manager  
PPL Therapeutics Inc.  
1700 Kraft Drive  
Virginia Tech Corporate Research Center  
Blacksburg, VA 24060  
Ref PPL/

## GRADUATE RESEARCH OPPORTUNITIES

The Department of Zoology, Oklahoma State University, invites applications to our M.S. and Ph.D. programs in (i) Zoology or (ii) Wildlife and Fisheries Biology. Our approach is integrative, with faculty interests ranging from (i) wildlife and fisheries ecology and conservation, and (ii) environmental toxicology, to (iii) ecology, evolution, and behavior. We also house a Cooperative Fish and Wildlife Research Unit, an Ecotoxicology and Water Quality Research lab, and a Vertebrate Museum. Faculty and interests:

J. Bantle, Developmental and environmental toxicology • T.S. Carter, Behavior, conservation, zoo biology • D. Duvall, Behavior, ecology, evolution, herpetology • A.A. Echelle, Fish systematics, ecology and conservation • M.S. Ewing, Fish symbionts, biology education • W.L. Fisher, Fish ecology, stream ecology, fishery science, GIS • D. Fort, Developmental toxicology and biology, applied pharmacology • S. Fox, Behavioral and evolutionary ecology, herpetology • D. French, Biology and environmental education, animal behavior • M. Hamilton, Genome organization, chromosomal evolution • E. Hellgren, Wildlife nutrition physiology, large mammal ecology management • R.P. Lanno, Aquatic and soil ecotoxicology, fish • D. Leslie, Terrestrial vertebrate ecology, endangered species • R.L. Lochmiller, Nutritional ecology, wildlife toxicology • K. McBee, Environmental and evolutionary genetics, mammalogy • G.K. Ostrander, Cancer biology, aquatic toxicology, tropical ecology • C.C. Peterson, Physiological ecology, energetics, herpetology • J. Shaw, Ecology, behavior, and conservation of large mammals • E. Stanley, Ecosystem ecology, stream and wetland structure and function • L. Talent, Lizard toxicology, nutrition, and life history • D. Toetz, Aquatic productivity, fish and lake management • R. Van Den Bussche, Conservation genetics, molecular systematics, evolution.

Our single regular application deadline for the 1997/1998 academic year is 15 February 1997. Special application to individual faculty may be made at any time, although slots are limited; contact them directly. For information and application please contact:

**Graduate Secretary, Department of Zoology, Oklahoma State University, Stillwater OK 74078-0459.**

## Assistant Professor Medical Technology

Teach courses in medical technology and clinical specialty (cytology, immunohematology, parasitology, histology and hematology). PhD or MS with certification ASCP or equivalent to teach clinical specialty and experience in teaching and medical technology field are required.

Tenure track position requiring advising students, assisting with curriculum development and participating in departmental & college activities. Strong commitment to undergraduate teaching and research/scholarship is essential. Evening and weekend hours may be assigned.

Salary range: \$29,931-\$52,215 commensurate with qualifications and experience.

Cover letter, CV, a brief description of research interests and names with addresses of 3 references should be sent by December 17, 1996 to: **Dr. Michael Chenouda, Professor & Coordinator, Medical Technology Program, Department of Health Sciences**, at the address below:

**York College**  
The City University of New York  
94-20 Guy R. Brewer Blvd.  
Jamaica, NY 11451

York College verifies education and experience statements. Selected candidates must provide proof of identity and eligibility. AA/EOE/ADA.

## EH & S Specialists II/III

*Starting Salary Between  
\$44,300-\$60,900/year*

The University of California, Irvine, is seeking two EH & S Specialists to develop and implement comprehensive laboratory safety policies and procedures. One position will serve the College of Medicine (Job #CU9220) and the other the School of Biological Sciences (Job # CU1196).

Responsibilities include assisting laboratory personnel with implementing safe operating and hazardous waste minimization procedures, training lab workers, inspecting laboratories, and assisting faculty and staff in implementing school-wide laboratory safety policies and procedures. Requires strong work experience applying the principles of occupational health, safety and environmental protection in an academic laboratory environment, as well as experience with developing and implementing policies and procedures, training/information and record-keeping programs. Effective written and oral communication skills are needed. Advanced degree in a scientific discipline is desirable.

Please submit a scannable resume and applicant data form by 1/3/97 referencing the appropriate Job #. Call (714) 824-4117 for resume preparation tips. Mail to: **UCI Campus Human Resources, Irvine, CA 92697-4600**. UCI is an equal opportunity employer committed to excellence through diversity.



## POST-DOCTORAL/JUNIOR FACULTY POSITION TUMOR IMMUNOBIOLOGY

A post-doctoral and/or junior faculty position is available in the Thomas E. Starzl Transplantation Institute, University of Pittsburgh, to join a multi-disciplinary team of physicians and scientists involved in the immunotherapy of post-transplant lymphoma in a large animal model and in human organ allograft recipients. Candidate must have a Ph.D. and/or M.D. and experience in dendritic cell immunobiology and cellular immunology. Interest in tumor biology and excellent written and oral communication skills are essential.

## POST-DOCTORAL/JUNIOR FACULTY POSITION MOLECULAR BIOLOGY

A post-doctoral and/or junior faculty position is available in the Thomas E. Starzl Transplantation Institute, University of Pittsburgh to participate in an NIH-funded study on chimerism and its role in transplantation tolerance using molecular techniques. Strong experience in PCR, RT-PCR, Northern and Southern analyses, and quantitative assessment is essential. Interest in cellular immunology and excellent written and oral communication skills are required. Candidates must have a Ph.D. and/or M.D. Send curriculum vitae and names of three references to:

**Abdul S. Rao, M.D., D.Phil.**  
Thomas E. Starzl  
Transplantation Institute  
University of Pittsburgh  
E1545 Biomedical Science Tower  
200 Lothrop Street  
Pittsburgh, PA 15261  
FAX: (412) 624-9493  
E-mail: [RAOA@A1.ISD.UPMC.EDU](mailto:RAOA@A1.ISD.UPMC.EDU)



## BIOCHEMIST, Ph.D.

The Department of Biochemistry at Merck Research Laboratories in Rahway, New Jersey seeks a biochemist with experience in molecular biology and a strong background in enzyme structure-function relationships to participate in our interdisciplinary research efforts to develop novel enzymes for use in the synthesis of targeted complex molecules.

Specific duties include routine DNA manipulations, mutagenesis, protein purification, enzyme assay development and computer-aided sequence analysis. Additional experience in enzyme-assisted synthetic chemistry or directed enzyme evolution would be an advantage. Ph.D. or equivalent and at least 2 years of postdoctoral experience in chemistry, biochemistry or molecular biology is required.

Merck Research Laboratories are located in Rahway, NJ approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent. For consideration, send your resume with the names of three references to: **Merck Research Laboratories, Human Resources, Ad#11, P.O. Box 2000, RY 80-A3, Rahway, NJ 07065.** EEO/AA/VH Employer.



## Postdoctoral Research Opportunities

Two postdoctoral positions are available in the research areas of Cell Biology and Molecular Biology of signal transduction, cell cycle regulation and apoptosis. Previous experience in a related area of research and extensive understanding of signal transduction mechanisms are required. Applicants should be well versed in relevant current techniques in these areas (e.g., molecular cloning, transfection, immunodetection in vitro and in situ, microinjection, enzymology of protein kinases, etc.). Experience in assessing cytoskeleton and cell shape modulations will be considered an advantage. Send curriculum vitae and names of three references to: **RPR Research & Development, Human Resources (H37), Position #PD, P.O. Box 5096, Collegeville, PA 19426-0800.** EOE, M/F/D/V.



## OAK RIDGE NATIONAL LABORATORY

# FUNCTIONAL GENOMICS RESEARCH POSTDOCTORAL POSITIONS

Seeking postdoctoral researchers to participate in a new interdisciplinary research effort at the Oak Ridge National Laboratory (ORNL) to work in the area of functional genomics. This new effort is devoted to the development of new and innovative approaches for studying gene function on a genome-wide scale. Current research focus areas involve:

- *High-efficiency and cost-effective ethylnitrosourea mouse germline mutagenesis strategies* (Monica Justice, justicem@bioax1.bio.ornl.gov)
- *New approaches in bioinformatics for development of functional information through analysis of complex biological and genome databases* (Ed Uberbacher, ube@ornl.gov)
- *Establishment of a mouse phenotype screening center* (Dabney Johnson, johnsondk@ornl.gov)
- *Advanced multispectral bioscreening development* (Tuan Vo-Dinh, tvo@ornl.gov)
- *Advanced applications for gene discovery and biochemical assays for "Lab-on-a-Chip" technologies* (Mike Ramsey, ramseyjm@ornl.gov)
- *High throughput automation and robotics for genome analysis* (Richard Mural, muralrj@ornl.gov)
- *Mass spectrometry for analysis of DNA* (Michelle Buchanan, vbu@ornl.gov)
- *Genosensor chip technology for studying genome structure and function* (Ken Beattie, beattiekl@ornl.gov)

All interested candidates should apply, although there is an immediate need for individuals to work on: (1) Developing and growing DNA-doped organic crystals for MALDI. Experience needed in solution- or gas-phase growth of organic crystals and familiarity with modern analytical instrumentation (Buchanan); (2) Advanced applications for gene discovery and biochemical assays for "Lab-on-a-Chip" technologies. Technology development orientation needed with training in physical sciences and background in nucleic acids (Ramsey); (3) Development of computational tools for assessing structure and function of genomic regions and for managing and visualizing interlinked genome function data. Training in computer science needed with a significant background in computational biology and genomics (Uberbacher); (4) Genetic manipulation of the mouse genome. Experience needed in molecular genetics (Justice).

Interested candidates should send their CV, along with three letters of recommendation, to: **Rick Woychik, Director, Office of Functional Genomics, Oak Ridge National Laboratory, Dept. SCI-1108, P.O. Box 2008, Oak Ridge, TN 37831-6272.** For more information, see our website at: <http://avalon.epm.ornl.gov/FunGen/>

ORNL, a multipurpose research facility managed by Lockheed Martin Energy Research Corp. for the U.S. Department of Energy, is an equal opportunity employer committed to building and maintaining a diverse work force.

## Cornell University Medical College New York City

The Department of Cell Biology and Anatomy at Cornell University Medical College invites applications for a tenure-track position at the Assistant Professor level. Competitive start-up packages will be available. Exceptional candidates will be considered for appointment at a higher rank. Candidates whose research relates to cell biology, developmental biology, or cell cycle regulation are of particular interest.

The successful candidate will be joining an expanding group of interactive faculty with broad research interests in cell, developmental, and molecular biology. Faculty are expected to establish a strong, well-funded research program and to contribute to graduate and medical education. The research environment at the tri-institutional complex of Sloan-Kettering Institute, Rockefeller University, and Cornell University Medical College is among the most exciting in the nation. The medical complex is situated in the upper east side of Manhattan, near the many cultural activities of New York City.

Interested candidates should submit a curriculum vitae, three letters of reference, and a description of current and future research interests by December 31, 1996 to:

**Takashi Mikawa, PhD**  
**Chair, Search Committee**  
**Department of Cell Biology and Anatomy**  
**Cornell University Medical College**  
**1300 York Avenue**  
**New York, NY 10021**  
*Cornell University Medical College is an  
EEO/AA/IRCA employer.*



**DANA-FARBER  
CANCER INSTITUTE**

## POSTDOCTORAL TRAINING OPPORTUNITIES IN AIDS RESEARCH

The Dana-Farber Cancer Institute seeks to fill postdoctoral training positions in AIDS-related research. Background and/or experience in this area is preferred but not essential. Candidates must commit to a minimum two-year training period. Training opportunities are available in the areas of immunology, retrovirology, and cell biology/pharmacology. A joint appointment will be held in an appropriate department of the Harvard Medical School.

Please forward a CV to:

**AIDS Postdoctoral Training Program**  
**Dana-Farber Cancer Institute**  
**44 Binney Street, LHRRB 210**  
**Boston MA 02115**

*The Dana-Farber Cancer Institute is an Equal  
Opportunity Employer*

INDIANA UNIVERSITY



## FACULTY POSITIONS INDIANA UNIVERSITY CANCER CENTER

Applications are being accepted for tenure-track faculty positions at the rank of Assistant or Associate Professor for researchers interested in experimental and molecular therapeutics of cancer. Research areas of interest may include anti-cancer drug resistance, cell cycle control, apoptosis pathways, signal transduction, anti-cancer drug discovery, and other areas applicable to translational research programs. Applicants must possess a Ph.D. or M.D. degree, and have a proven track record in obtaining peer-reviewed extramural funding. Successful candidates will have academic appointments in a basic science department of the Medical School, and some teaching of medical students and graduate students is expected. Generous start up packages and state-of-the-art research laboratory space will be provided in the new 80,000 sq. ft. Indiana University Cancer Research Institute (opening Spring, 1997). This facility is the focus of a highly interactive group of basic scientists and clinicians involved in the I.U. Cancer Center. Applicants should submit a C.V. and a description of current and future research programs, and should arrange for three letters of recommendation to be forwarded to the address below.

**Leonard C. Erickson, Ph.D., Associate Director, Basic Research, Indiana University Cancer Center, 535 Barnhill Drive, Indianapolis, IN 46202**

*Indiana University is an Affirmative Action/  
Equal Opportunity Employer. Women and  
Minorities are encouraged to apply.*

## UNIVERSITY OF MINNESOTA CANCER CENTER AND THE COLLEGE OF PHARMACY

### Assistant Professor Chemoprevention Research

The University of Minnesota Cancer Center and the College of Pharmacy announce a new Assistant Professor fixed term, renewable position in chemoprevention research. The successful applicant will have a doctoral degree and a strong background in bio-organic, organic, or medicinal chemistry and minimum three years postdoctoral experience in the field of chemical carcinogenesis. Direct experience in research on mechanistic approaches toward cancer chemoprevention is highly desirable. The applicant will demonstrate the potential to develop an independently funded research program focusing on approaches to the chemoprevention of cancer. This research program will involve the development of agents, either naturally occurring or synthetic, which can inhibit the carcinogenic process by focusing on compounds that either interfere with carcinogen activation or enhance detoxification or that suppress tumor development or work by other mechanisms. Additionally, the research program will explore mechanisms by which chemopreventive agents act and will use this information to improve the agents and to aid in selecting specific populations in which they are effective. The applicant will also demonstrate a strong commitment toward teaching and graduate student development. It is expected that within 3 years the successful candidate will generate a portion of his/her salary. Individuals interested in this position should submit a curriculum vitae, a summary of long term research goals, and the names and addresses of three references to **Dr. Stephen Hecht, Chair, Search Committee, University of Minnesota Cancer Center, Box 806 UMHC, 420 Delaware Street SE, Minneapolis, MN 55455-0392, ATTN: Cindy Prange.** The last date for receipt of applications is **January 15, 1997.** *The University of Minnesota is an equal opportunity educator and employer.*



## Director of Surgical Research

The Department of Surgery Education, Iowa Methodist Medical Center, has an established research program and a good publication record. The Department seeks a basic biomedical scientist (physiologist, immunologist, geneticist, or anatomist) who can stimulate new research and expand existing research in its surgery residency program based in a large community medical center. The Director of Surgical Research will be expected to develop an independent, externally funded research program, assist residents and staff in the development and conduct of basic and clinical research projects, and provide formal and informal instruction in surgical basic sciences. A Ph.D., M.D., or equivalent is required, and a minimum of two years of postdoctoral experience is preferred. Candidate will be required to use Microsoft Office. Submit curriculum vitae and three references to: **Sara Phillips, Human Resources, Iowa Methodist Medical Center, 1313 High Street, Suite 111, Des Moines, IA 50309**

*EOE/AA/M/F/D/V*

# Tenure-Track Positions Assistant Professor Equivalent

## X-ray Crystallography

The National Institute of Environmental Health Sciences invites applications for a tenured senior level or a tenure-track junior level position in x-ray crystallography. We plan to develop a strong group to study the structure and function of proteins involved in nucleic acid transactions and/or signal transduction pathways. Excellent space and research support available. For additional information, contact Dr. Jan Drake at 919-541-3361 or Dr. Thomas Kunkel at 919-541-2644. Applications must be received by December 2, 1996. Laboratory of Structural Biology (OE-120), NIEHS, Ms. Dara Trupe HRMB (HNV96-15), P.O. Box 12233, Mail Drop 1-01, Research Triangle Park, NC 27709.

## Cancer Epidemiologist

The Environmental Epidemiology Branch seeks an MD or PhD investigator to develop a research program focused on co-factors involved in the etiology and prevention of virus-related gynecologic tumors. Requirements include a strong understanding of epidemiological methods and molecular biological processes, experience in the conduct of large epidemiological studies, and knowledge and experience in the study of female gynecologic and virus-related tumors. Submit applications by January 15, 1997 to Ms. Judy Schwadron, Program Analyst, Division of Cancer Epidemiology and Genetics (OE-120), NCI, EPN Room 539, Bethesda, MD 20892.

## Neurophysiological Studies

The National Institutes of Mental Health is seeking an independent

tenure-track researcher to conduct cellular level neurophysiological studies of cortical and/or basal ganglia function. The candidate will pursue studies of neurotransmitter receptor-mediated adaptive processes related to the function of these brain areas, complementing ongoing LNP studies which include molecular and neuroanatomical studies of the functional organization of the basal ganglia and frontal cortex and primate behavioral neurophysiology studies of the cooperative interaction between frontal cortical areas in the selection and control of behavior. Applications should be received by December 31, 1996. Laboratory of Neurophysiology (OE-120), NIMH, Ron McKay, Building 36, Room 5A29, 36 CONVENT DR MSC 4157, BETHESDA MD 20892-4157.

## To Apply

Please send a cover letter, *curriculum vitae*, bibliography, a one- to two- page statement of research interests and goals, and selected publications to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three references who can provide an evaluation of your professional qualifications.

## New WWW Site

Visit the new NIH Office of Education web site listing tenure-track positions, postdoctoral positions, and much more. Converse by e-mail with NIH investigators and apply electronically. Find us at <http://helix.nih.gov:8001/oe>



## National Institutes Of Health

### Office Of Education

<http://helix.nih.gov:8001/oe>

The NIH is an Equal Opportunity Employer

## Molecular and Cellular Cardiology

The Mount Sinai Medical Center is a world-renowned leader in patient care, research and medical education. The Cardiovascular Institute of the Mount Sinai School of Medicine – directed by Valentin Fuster, M.D., Ph.D. – announces a National Institutes of Health-Funded Training Program in Molecular and Cellular Cardiology.

Positions will become available in July 1997, and will entail two years of basic research in the following areas:

Mount  
Sinai

SM

### Vascular Biology and Thrombosis

Juan J. Badimon, Ph.D.  
Barry S. Collier, M.D.  
John T. Fallon, M.D., Ph.D.  
Valentin Fuster, M.D., Ph.D.  
Yale Nemerson, M.D.  
Mark B. Taubman, M.D.

### Lipoproteins

Jan J. Breslow, M.D. (Rockefeller University)  
Ed Fisher, M.D.  
Peter C. Harpel, M.D.

### Ion Channels and Signaling

Dennis P. Healy, Ph.D.  
Ravi Iyengar, Ph.D.  
Diomedes Logothetis, Ph.D.  
Andrew R. Marks, M.D.

### Cardiac Muscle and Development

Robert Desnick, M.D., Ph.D.  
Manfred Frasch, Ph.D.  
Bruce D. Gelb, M.D.  
D. Stave Kohtz, Ph.D.  
Francesco Ramirez, Ph.D.

The ideal candidates will be MDs who have completed a clinical cardiology fellowship as well as those who have completed an internal medicine residency and wish to combine basic cardiovascular research with clinical cardiology training. U.S. citizenship or permanent resident status is mandatory.

Please forward curriculum vitae to: **Mark B. Taubman, M.D., Director, Training Program in Molecular and Cellular Cardiology, Box 1269, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. e-mail: [m\\_taubman@smtplink.mssm.edu](mailto:m_taubman@smtplink.mssm.edu).** An equal opportunity employer.

The Mount Sinai Medical Center



## Director of Molecular Biology

Targeted Genetics Corporation is a Seattle-based biotechnology company developing integrated gene and cell therapies for the treatment of acquired and inherited diseases. The Company has three lead product development programs targeting cystic fibrosis, breast and ovarian cancer, and HIV cell therapy, as well as an extensive technology platform.

We are seeking an individual to head our Molecular Biology Department. This individual will be expected to play a significant role in providing scientific leadership and direction to initiate and move research into preclinical testing for the Company's gene therapy and cellular therapy clinical trials. Our molecular biology research has a particular emphasis on developing AAV vectors and nonviral gene delivery systems for in vivo gene therapy, and on modification of T cells for adoptive immunotherapy with cytotoxic T cells. The incumbent will have primary responsibility for developing the nonviral gene delivery program.

Specific technical challenges and emphasis include:

- regulated gene expression cassettes for viral and non-viral vectors
- gene expression systems for organ and cell-specific regulation
- enhanced efficiency of gene delivery and expression
- specific targeting of in vivo gene delivery systems
- external collaborative interactions

Qualified candidates will possess a strong research background and publication record, as well as proven management skills in leading multidisciplinary projects, preferably in an industrial setting. A Ph.D. with expertise in some or all of the following areas is required: molecular biology, biochemistry, cell biology, intracellular trafficking, and gene therapy. For consideration, please forward your C.V. to:

### Targeted Genetics Corporation

Human Resources  
1100 Olive Way, Suite 100  
Seattle, WA 98101  
Fax: (206) 521-7872  
e-mail: careers@targen.com  
Jobline: (206) 521-7300

TGC is an Equal Opportunity Employer

Howard Hughes Medical Institute

## Research Technician

The Howard Hughes Medical Institute, the nation's largest private philanthropic organization, conducts scientific research in leading academic medical centers throughout the United States. Currently, we are seeking a Research Technician for our site at MIT/Whitehead Institute.

Responsibilities involve working with a dynamic group on studies of HIV viral membrane fusion proteins and their structure/function. Duties include setting up and maintaining vaccinia, baculovirus, and CHO protein expression systems of viral envelopes and other membrane-fusion proteins. In addition, participating in HIV research, and experiments involving constructing recombinant DNA clones, tissue culture, and handling live HIV virus will be required. Requirements include previous experience working in an HIV research containment laboratory and the ability to work independently. A BS and five years or MS and three years of relevant experience is preferred.

HHMI offers competitive salaries and an excellent benefits package. Please send your resume and the names of three references to: HHMI/MIT, Attn: J. O'Connor, Job 525A, 77 Massachusetts Avenue, 68-171, Cambridge, MA 02139. EOE.

<http://www.hhmi.org>



## Postdoctoral Fellow

### MOLECULAR ENDOCRINOLOGY

The Mount Sinai School of Medicine has an immediate availability on an NIH-funded training grant for an individual to join a group who will study the roles of both known and novel transcription factors in developmental and homeostatic regulation of prolactin gene expression.

**Mount Sinai**

The qualified candidate will possess a strong background in biochemistry. Molecular biology and/or genetics experience would be considered an asset. In accordance with NIH stipulations, eligible candidates must be U.S. citizens or permanent residents.

Please send curriculum vitae and names and telephone numbers of three references to: **Dr. Carter Bancroft, Department of Physiology and Biophysics, Box 1218, Mount Sinai School of Medicine, Box 1218, One Gustave L. Levy Place, New York, NY 10029-6574.** An Equal Opportunity Employer.

The Mount Sinai Medical Center

## STAFF SCIENTIST

The Health Effects Institute (HEI) has an immediate opening for a Staff Scientist to work with the Institute's Health Review Committee and staff to implement their peer-review processes. The Staff Scientist will: serve as a liaison among investigators, the HEI Review Committee, and editors during the review of investigators' reports; develop commentaries that put the research findings into scientific and public policy contexts; and write critical reviews.

HEI is a nonprofit organization that serves as an independent and impartial source of information on the health effects of air pollution from motor vehicles and other sources. It is jointly sponsored by the U.S. Environmental Protection Agency and industry.

Applicants must have a doctoral degree in a scientific discipline, postdoctoral experience, and an interest in science management and science communication. The successful candidate must also have excellent writing skills and an ability to communicate technical information to the scientific community and the general public. Experience in chemical or molecular toxicology, biochemistry, or epidemiology is particularly desirable.

Please respond by sending a curriculum vitae and a recent writing sample to: **Dr. Kathleen M. Nauss, Director for Scientific Review and Evaluation, Health Effects Institute, 955 Massachusetts Avenue, Cambridge, MA 02139.** An Affirmative Action/Equal Opportunity Employer.

## Faculty Position

### INSTITUTE FOR GENE THERAPY AND MOLECULAR MEDICINE

The Mount Sinai School of Medicine has a tenure-track position available in our newly-established Institute for

**Mount Sinai**

Gene Therapy and Molecular Medicine for investigators in the area of molecular biology and genetics of lentiviruses. Research programs which will eventually lead to the development of vectors for gene transfer into non-dividing cells are particularly welcome. Competitive start-up packages including designated research space in a new, state-of-the-art building are available.

Interested candidates should send a current curriculum vitae, bibliography, a short description of past research accomplishments and future research plans and three letters of references to: **Dr. George F. Atweh, Chair of Search Committee, Mount Sinai School of Medicine, Box 1498, One Gustave L. Levy Place, New York, NY 10029-6574.** An Equal Opportunity Employer.

The Mount Sinai Medical Center

**NIEHS**

THE LABORATORY OF  
STRUCTURAL BIOLOGY,  
NATIONAL INSTITUTE OF  
ENVIRONMENTAL HEALTH  
SCIENCES



NATIONAL INSTITUTES OF HEALTH  
HAS IMMEDIATE OPENINGS FOR

POSTDOCTORAL FELLOWSHIPS IN THE FOLLOWING AREAS:

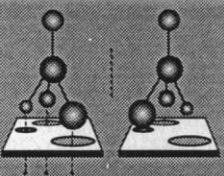
**Molecular biology of DNA repair and mutagenesis in mammalian cells.** Position requires a Ph.D. degree in biochemistry or molecular biology and no more than five years of postdoctoral research experience.

**DNA polymerase structure/function.** We are interested in the detailed kinetics of wild-type and mutant forms of DNA polymerases to determine the fundamental principles underlying fidelity and polymerase-nucleic acid interactions. Our approach is through a combination of mutagenesis, kinetic analysis and structure determination. Candidates should have a Ph.D. in biochemistry or biophysical chemistry with no more than five years of postdoctoral research experience in one or more of the following areas: nucleic acid enzymology, rapid-kinetic techniques, kinetic modelling, fluorescence spectroscopy.

Send curriculum vitae, three letters of reference, and official copy of doctoral degree to:

**Dr. Samuel H. Wilson, NIEHS**  
**Laboratory of Structural Biology**  
**P.O. Box 12233 (MD F3-01)**  
**Research Triangle Park, NC 27709**  
**Email: wilson5@niehs.nih.gov.**

CELGENE



CELGENE CORPORATION, a biotechnology company and a leader in the application of biocatalysis for the production of pharmaceuticals and agrochemicals, seeks highly motivated individuals who desire to participate in a multidisciplinary effort to generate new and improved enzymes for use in chiral biocatalysis.

**MICROBIOLOGIST**

To lead the discovery and development of new microorganisms and enzymes for biocatalysis and biotransformations, including the design and implementation of enrichments, isolations, screens, and biochemical studies. Ph.D. Microbiology or Biochemistry and 2+ years' relevant experience. **(Position 96-51)**

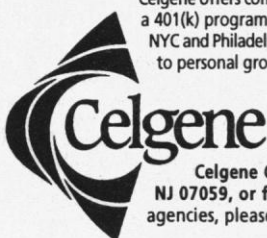
**FERMENTATION SCIENTIST**

To lead the development of fermentation systems to maximize production of active enzyme, addressing issues such as expression level, inclusion bodies and production strain as well as fermentation process optimization. Ph.D. Microbiology or Biochemical Engineering with 2+ years' relevant lab experience. **(Position 96-28A)**

**RESEARCH ASSOCIATES**

To aid in the research efforts in the areas of Molecular Biology, Microbiology and Enzymology. BS/MS in these disciplines with relevant lab experience, or backgrounds in biocatalysis or biotransformations. **(Position 96-52:54)**

Celgene offers competitive salaries and generous benefits including a 401(k) program. Our modern facilities in Central NJ, between NYC and Philadelphia, provide an attractive environment conducive to personal growth and achievement.



Qualified applicants should send a detailed resume, indicating position # and salary requirements, to: **HR Manager, Dept. SCI,**  
**Celgene Corporation, 7 Powder Horn Drive, Warren,**  
**NJ 07059, or fax it to (908) 271-4184. No phone calls or**  
**agencies, please. Equal Opportunity Employer.**

## MYRIAD GENETICS, INC.

### Research Opportunities



Myriad Genetics is an innovative genomics company focused on the isolation of significant disease-causing genes. Our scientific achievements include elucidating the role of the p16 tumor suppressor gene in cancer and identifying the breast and ovarian cancer susceptibility gene BRCA1. We currently have major programs in asthma, cancer, central nervous system disorders, coronary heart disease, diabetes, obesity, and osteoporosis. Expansion of our gene identification and gene characterization efforts provides a number of exciting opportunities for highly motivated individuals. These include:

**Scientist**

You will lead a group of investigators who are developing and implementing automated, high-throughput assays to understand gene function. The successful candidate will possess a Ph.D. or equivalent in molecular biology and 2-5 years' relevant experience. A strong background in genetics of model organisms such as yeast, *C. elegans* or *Drosophila* is desired, experience with two-hybrid assays a plus. Excellent oral and written communication skills are also essential.

**Scientist**

You will join a group that is using cell culture-based assays to understand the function of genes involved in breast cancer. The successful candidate will possess a Ph.D. or equivalent in cellular or molecular biology and 3-5 years' relevant experience. A strong background in cell-based assays is a must, experience in carcinogenesis is also desired.

**Research Associates**

You will be part of a team that is developing and implementing high-throughput assays to understand gene function, or part of a multi-disciplinary team dedicated to mapping and cloning genes involved in human diseases. Requires an MS or BS degree and a minimum of two years' experience in molecular biology. Familiarity with construction and screening of cDNA libraries, PCR and other molecular biology techniques is essential.

**Research Associates**

You will investigate the function of important disease genes. An MS or BS degree and a minimum of two years' experience in cellular or molecular biology is required. Expertise in cell culture, flow cytometry, and immunological assays is desirable.

We offer an attractive compensation package and a stimulating, interactive research environment. Please mail or fax your letter of interest, including a complete resume and the names of three professional references, to: Barbara Berry, Human Resources Department, Myriad Genetics, Inc., 320 Wakara Way, Salt Lake City, UT 84108. Fax: 801-584-3640. We are an equal opportunity employer.



## POSITIONS OPEN

### ASSISTANT PROFESSOR: MICROBIOLOGY

The Department of Biochemistry/Microbiology of Oklahoma State University College of Osteopathic Medicine (OSU-COM) invites applications for a full-time, 12-month tenure-track **FACULTY** position in an expanding division of Basic Sciences. Candidates should have expertise in one or more areas of molecular microbiology such as mechanisms of pathogenesis or genetics. Research facilities, start-up funds, competitive salary, and environment for professional development will be provided. Must have commitment to establishing a successful research program and will be expected to participate in team teaching Medical Microbiology to medical students, develop a graduate course in area of expertise, and participate in training of graduate students. Doctoral degree and postdoctoral research experience in molecular biology are required. Prefer knowledge of mycology. Applications reviewed beginning December 15, 1996; open until filled. Candidates should send a letter of application, statement of research interest, curriculum vitae, and the names and addresses of three to five professional references to: **Dr. Robert S. Conrad, Chair, Department of Biochemistry/Microbiology, OSU-COM, 1111 West 17th Street, Tulsa, OK 74107-1898.** OSU-COM is an Equal Opportunity/Affirmative Action Employer.

### TENURE-TRACK POSITIONS ASSISTANT PROFESSOR LEVEL Structural Biology and/or Bioorganic/ Medicinal Chemistry

Applications are invited for two tenure-track positions at the level of **ASSISTANT PROFESSOR**, effective immediately. Individuals with expertise and demonstrated research excellence in structural biology and/or bioorganic/medicinal chemistry are encouraged to apply. Appointees will receive a competitive salary and an attractive set-up package and will be expected to participate in the Ph.D. program of the Graduate School of Biomedical Sciences and in the Department's Medical Pharmacology course. The applicant should send a curriculum vitae and a statement of research plans and should arrange for three letters of reference to be sent for review no later than December 31, 1996 to: **Dr. Neal Brown, Chair, Faculty Search Committee, Department of Pharmacology and Molecular Toxicology, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655-0126.**

The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer and strongly encourages applications from female and minority candidates.

### FACULTY POSITION Department of Anatomy and Cell Biology East Carolina University School of Medicine

Tenure-track faculty position available at the **ASSISTANT PROFESSOR** level. Candidates must have Ph.D. with a strong background in molecular/cell biology, preferably with expertise in developmental biology; evidence of research productivity; and qualities of a successful instructor. Development of an extramurally funded research program and team-teaching medical, allied health, and doctoral-level graduate courses are expected. Strong core facilities are available to support molecular biological techniques. For more information, visit our homepage, [www.med.ecu.edu/anatomy/homepage.htm](http://www.med.ecu.edu/anatomy/homepage.htm). Salary commensurate with credentials. Send curriculum vitae, a letter describing research and teaching goals, and addresses of three references by January 31, 1997 to: **Dr. Jack E. Brinn, Chair, Department of Anatomy and Cell Biology, School of Medicine, East Carolina University, Greenville, NC 27858.** Affirmative Action/Equal Opportunity Employer—accommodates individuals with disabilities.

The Maryland Psychiatric Research Center (MPRC), University of Maryland School of Medicine, invites applications for a full-time **FACULTY** position in an expanding Neuroscience Program. Preference will be given to individuals in the areas of behavioral neuropharmacology and addiction research. Ph.D. and a minimum of two years of postdoctoral experience required. The successful candidate will be expected to develop a vigorous, independently funded research program. Generous start-up funds will be provided. Send curriculum vitae, a brief summary of current and future research interests, and the names of three references to: **Dr. Robert Schwarcz, MPRC, P.O. Box 21247, Baltimore, MD 21228.** The University of Maryland is an Affirmative Action/Equal Employment Opportunity/ADA Employer. Minorities and women are encouraged to apply.

## POSITIONS OPEN

### FACULTY POSITIONS Biochemistry and Molecular Biology

Applications are invited for two tenure-track faculty positions in the Department of Biochemistry at the rank of **ASSISTANT PROFESSOR**. Candidates with excellent training and accomplishments at the postdoctoral level in eukaryotic molecular biology will be considered.

For one of the positions, we are seeking an exceptional candidate who employs innovative approaches to investigate fundamental problems in plant biochemistry and molecular biology. For the other position, all research areas of eukaryotic biochemistry and molecular biology will be considered, but preference will be given to individuals with expertise in the application of biophysical approaches to problems related to macromolecular structure, function, or assembly of complexes.

The successful candidates will be active participants in the teaching programs of the department, which include undergraduate, graduate, and medical curricula. A significant part of the evaluation of faculty candidates will be the perceived effectiveness of each candidate as a teacher.

Competitive start-up funds and excellent laboratory space will be provided. University-wide support facilities include antibody production, peptide and DNA synthesis and sequencing, mass spectrometry, macromolecular NMR analyses, and the computing center. The life science research community at Purdue numbers well over 100 investigators actively engaged in all aspects of modern biological research.

Curriculum vitae, the names and addresses of three individuals who can supply letters of reference, and a two-page summary of research interests are required for an application. The screening of applications will commence immediately and will continue until the positions are filled.

### Biochemistry Search Committee Department of Biochemistry Purdue University West Lafayette, IN 47907-1153 U.S.A.

Purdue University is an Affirmative Action/Equal Opportunity Employer.

**ASSISTANT PROFESSOR** in Behavioral/Cognitive Neuroscience. The Department of Brain and Cognitive Sciences in the University of Rochester has available a tenure-track position. We seek scientists working within the broad domain of brain and behavioral plasticity. Especially encouraged to apply are those employing a cellular and/or systems approach to investigate mechanisms of plasticity during development, or learning and memory. The successful candidate will join a department whose focus is the study of development, cognition, and perception through combined neurobiological, computational, and behavioral research. The new faculty will also be part of a university-wide neuroscience community engaged in graduate and undergraduate education. Applicants can learn about the department at <http://broca.bcs.rochester.edu/bcs/>. Applicants should submit a curriculum vitae, a brief statement of research interests, and three reference letters to: **Search Committee Chair, Department of Brain and Cognitive Sciences, University of Rochester, Rochester, NY 14627.** Application deadline is January 1, 1997.

### POPULATION GENETICIST

The Department of Systematics and Ecology, University of Kansas, invites applications for a tenure-track **ASSISTANT PROFESSORSHIP** in population genetics. Applicants will be expected to have an active research program in theoretical and/or empirical population genetics and to teach graduate and undergraduate courses in population genetics and other areas (e.g., population biology, evolution, biostatistics, general biology, or seminars). Preference will be given to individuals with postdoctoral experience; teaching ability and experience; ability to interact with behaviorists, ecologists, and systematists; quantitative skills; and ability to acquire external funding. Send curriculum vitae; statement of research interests, goals, and current research activities; statement of teaching philosophy, experience, and interests including courses the applicant would like to teach; and copies of publications and/or manuscripts, and have three letters of reference sent to: **Chair, Search Committee, Department of Systematics and Ecology, Haworth Hall, University of Kansas, Lawrence, KS 66045-2106.** Initial review of applications will begin January 2, 1997 and will continue until the position is filled. Availability of position is contingent on final budgetary approval. Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### ST. CLOUD STATE UNIVERSITY Medical Microbiologist-Immunologist

St. Cloud State University (SCSU) invites applications for a tenure-track **ASSISTANT PROFESSOR** as a Medical Microbiologist-Immunologist in the Department of Biological Sciences to begin September 1997. Ph.D. with postdoctoral experience in a biological science or other related fields required. Post-secondary teaching experience preferred. The successful candidate will teach courses in microbiology, medical microbiology, biological instrumentation, and biology core courses. In addition to teaching, the successful candidate is expected to establish a research program in a specialized area of biology for undergraduates and Master's students. Student advising and other university-related services expected. A professional development program including research is required for tenure and promotion. To apply, submit letter of application; curriculum vitae; transcripts (copies acceptable for initial screening); and letters from three to five references who can specifically comment upon your teaching ability, experience, and professional preparation by December 9, 1996. Materials received after the deadline date are not guaranteed consideration. Submit application materials to: **Search Committee Chairperson, Medical Microbiologist-Immunologist, Department of Biological Sciences, SCSU, MS 262, 720-Fourth Avenue South, St. Cloud, MN 56301-4498.** Refer questions to: [jcronn@tiger.stcloud.mn.us](mailto:jcronn@tiger.stcloud.mn.us). SCSU is an Affirmative Action/Equal Employment Opportunity Employer.

### FOOD/NUTRITION TOXICOLOGY

**ASSISTANT/ASSOCIATE PROFESSOR.** The Department of Nutrition and Food Science, University of Maryland, invites applications for a 9.5-month tenure-track research/teaching position. Applicants must have a Ph.D. in food science, nutrition, toxicology, or related discipline; postdoctoral research in food or nutrition toxicology is preferred. Responsibilities include 1) to establish an independent research program on some aspect of food/nutrition toxicology, using molecular biological methods for the detection and/or analysis of food toxicants or bioactive compounds, 2) to teach undergraduate and graduate courses in nutrition and food toxicology. Send curriculum vitae, statement of research and teaching interest, academic transcripts, and three letters of reference to: **Dr. Thomas W. Castonguay, Department of Nutrition and Food Science, Room 3304 Marie Mount Hall, University of Maryland, College Park, MD 20742-7521.** Deadline for application is February 1, 1997 or until position is filled.

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

### FACULTY SEARCH Department of Molecular Genetics and Cell Biology

The Department of Molecular Genetics and Cell Biology at the University of Chicago invites applications for tenure-track positions in the areas of molecular genetics, developmental biology, and molecular or cell biology using microbes, plants, or animals as experimental systems. We are seeking candidates at the **ASSISTANT PROFESSOR** level, although we will consider outstanding applicants at any level who have a strong potential for imaginative research in broad areas of biology. Successful candidates will receive newly renovated laboratory space and ample start-up funds, and will join a dynamic Department with an active program of graduate education.

By December 1, 1996, applicants should send curriculum vitae, reprints, statement of research experience and proposed program, and names of three references to: **Faculty Search, c/o Dr. Anthony P. Mahowald, Department of Molecular Genetics and Cell Biology, 920 East 58th Street, Chicago, IL 60637-1474.** The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

### ASSISTANT PROFESSOR University of Michigan-Flint

Biochemist with interest in toxicology: anticipated **TENURE-TRACK** position, fall 1997. Ph.D. required. Teaching responsibilities include courses in biochemistry and toxicology and selected lower-division courses. Undergraduate research program is expected. Send curriculum vitae, brief statement of research interest (three pages or fewer), transcripts, and three letters of reference by December 31, 1996 to: **Dr. J. R. Ames, Department of Chemistry, UM-Flint, Flint, MI 48502-2186.** Email: [jimames@umich.edu](mailto:jimames@umich.edu). University of Michigan-Flint is a non-discriminatory/Affirmative Action/Equal Access Employer.

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At Parke-Davis Pharmaceutical Research Division of Warner Lambert Company, inspired science and a strategy of innovation has made us a leader in the pharmaceutical industry. Currently, we have an exciting opportunity for a Senior Scientist/Research Associate available in our Immunopathology Department at our research headquarters in Ann Arbor, Michigan.

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A Ph.D. with 2-4 years' experience including appropriate post-doctoral training is required. A strong record of publications and demonstrated oral and written communication skills are essential. Previous supervisory and drug discovery experience are helpful.

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We currently have a position for an experienced Scientist in Molecular Biology and primary cell culture methods. The ideal candidate will have at least one year of experience establishing a variety of primary neuronal cultures, preferably from both CNS and PNS. The position requires characterization of such cultures by one or more of the following techniques: light microscopy, immunocytochemistry, morphometry, biochemistry and molecular biology.

An independent and creative thinker who can identify and solve problems, and propose modifications to existing approaches is ideal.

The DuPont Merck Pharmaceutical Company can offer you an excellent compensation and benefits package including a 401K plan, as well as excellent working conditions and challenging assignments. Please send a letter of introduction and resume to: Human Resources, CNS-11/96-KBD, The DuPont Merck Pharmaceutical Company, E400-2413, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer M/F/D/V.



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**SENIOR EVOLUTIONARY ECOLOGIST**

The Biology Department at Emory University invites nominations for a senior tenured position in Evolutionary Ecology. Nominees should have a distinguished track record in research and training. The appointee will participate in the recently established interdepartmental program in Population Biology, Ecology and Evolution of the Graduate Division of Biological and Biomedical Sciences and will be active in the development of the ecological component of the program. The appointee will have teaching responsibilities at the undergraduate level. Nominations (including self-nominations) should be sent to **Dr. John C. Lucchesi, Department of Biology, Emory University, 1510 Clifton Road, Atlanta, GA 30322; Tel.: (404)727-4234; Fax: (404)727-2880; E-mail: ecology\_srch@biology.emory.edu.** Review of completed applications will begin January 2, 1997. Information on the Biology Department and Emory's graduate programs can be obtained from the following Web sites:

<http://www.emory.edu/BIOLOGY/index.htm>,  
<http://www.service.emory.edu/BIOMED/GDBBSHomePage.html>,  
<http://www.cc.emory.edu/PBEE/pbee.html>.

**ZEBRAFISH DEVELOPMENTAL BIOLOGISTS**

The Department of Biology at Emory University is seeking applicants who use the zebrafish as a model for the study of vertebrate development. Two tenure-track appointments will be made at the assistant professor level, although an appointment at a higher rank will be considered in exceptional circumstances. Resources are committed to establish a state-of-the-art rearing facility and to provide competitive start up funds. The successful candidates must establish strong research programs and will teach undergraduates in the Biology Department and graduate students in appropriate programs of the interdepartmental Graduate Division of Biological and Biomedical Sciences. Applicants should submit a curriculum vitae, a statement detailing their current research and future plans, and should arrange for three letters of recommendation to be sent to **Dr. Steven L'Hernault, Zebrafish Search, Department of Biology, Emory University, 1510 Clifton Road, Atlanta, GA 30322; Tel.: (404)727-4234; Fax: (404)727-2880; E-mail: zebra\_srch@biology.emory.edu.** Review of completed applications will begin January 2, 1997. Information on the Biology Department and Emory's graduate programs can be obtained from the following Web sites: <http://www.emory.edu/BIOLOGY/index.htm>, <http://www.service.emory.edu/BIOMED/GDBBSHomePage.html>. AA/EOE

**BIOLOGIST (Staff Scientist)**

**Laboratory of Neurochemistry, Section on Neurotransmitter Receptor Biology, National Institute on Deafness and Other Communication Disorders, National Institutes of Health**

The Section on Neurotransmitter Receptor Biology (SNRB), Laboratory of Neurochemistry (LN), National Institute on Deafness and Other Communication Disorders (NIDCD) is recruiting for the position of Biologist (Staff Scientist). The Biologist will be responsible for carrying-out collaborative basic research within the Section and for maintaining the microscopy facility of the SNRB which includes a transmission electron microscope, light microscopes and related equipment. The position requires a Ph.D. with extensive postdoctoral experience in neurobiology, electron microscopy, light microscopy, and immunocytochemistry with light and electron microscopy. The candidate should have broad experience in the morphology of the central nervous system and more detailed knowledge of central auditory structures. In addition, experience in the following is desirable: immunocytochemistry with colloidal gold localization, immunofluorescence, tracer injection, scanning electron microscopy, and synaptogenesis in the developing brain. Current studies will concentrate on immunocytochemical localization of glutamate receptors in the mammalian brain, with emphasis on the primary auditory nuclei. The successful candidate is expected to maintain an active program of collaborative research; to learn, develop and adapt new techniques as needed to explore pertinent research questions; and to be knowledgeable about scientific resources (both human and material) at the NIH and elsewhere.

This is a Civil Service position at the GS-13 level, with a base salary currently ranging from \$52,867 to \$68,729 per year depending on qualifications.

Further information about the position and qualification requirements may be obtained by contacting Ms. Gayle Mundell at (301) 402-0508 (voice or TDD) or TDD (301) 402-1134. A Curriculum Vitae and Bibliography should be submitted by **November 25, 1996** to: **Ms. Gayle Mundell, Personnel Management Specialist, NIDCD Personnel Management Branch, 31 Center Drive, MSC 2320, Bethesda, MD 20892-2320**

NIH is an Equal Opportunity Employer



## POSITIONS OPEN

### CLINICAL RESEARCH NEUROLOGIST NEURODEGENERATIVE DISEASE The University of Connecticut School of Medicine

A key focus of the School of Medicine's strategic plan calls for the creation of a neurodegenerative disease initiative utilizing fast magnetic resonance imaging as a research tool. Having already expanded relevant basic research, we are now in a position to develop related clinical research. To support this program, a new MRI scanner with echo-planar capability that permits functional imaging has been acquired, and we have dedicated a considerable portion of its use for research purposes. Additional start-up monies have been made available, and new positions have been created in neurology, psychiatry, and imaging science. In addition to making individual contributions, these three individuals will constitute a team dedicated to the study of neurodegenerative disease through the application of contemporary imaging science.

The **TENURE-TRACK** position in neurology requires a clinical researcher who uses imaging as a major component of his or her research program. Examples include a clinical scientist with experience in behavioral neurology, neuroimmunology or multiple sclerosis, Alzheimer's or other dementing illnesses, or motor disorders such as Parkinson's disease.

Applicants must be Board-eligible/certified in neurology with fellowship training and research experience. Please submit résumés to:

**Leslie Wolfson, M.D.**

**Professor and Chair, Department of Neurology  
The University of Connecticut School of Medicine  
Farmington, CT 06030-1845**

(Search Code 96-304).

*An Affirmative Action/Equal Opportunity Employer. Minorities/Females/Persons with Disabilities/Veterans.*

### FACULTY POSITION Assistant Professor of Biological Sciences Ohio Northern University

The Department of Biological Sciences invites applications for the position of **ASSISTANT PROFESSOR** of Biological Sciences to begin September 1, 1997. The position will be a four-year renewable contract nine-month appointment or a visiting nine-month appointment dependent on interests and qualifications of the candidates. A Ph.D. degree, evidence of effective undergraduate teaching, and an ability to collaborate with other faculty in teaching are expected. Teaching assignments will include introductory biology courses and the teaching and coordination of the introductory anatomy and histology course for students in the College of Pharmacy. The credentials must indicate strong preparation in zoology and human biology. For full consideration, submit by January 15, 1997, curriculum vitae, evidence of undergraduate teaching ability, a statement of teaching philosophy, official transcripts of undergraduate and graduate training, and three letters of recommendation to: **Terry Keiser, Chair, Department of Biological Sciences, Ohio Northern University, Ada, OH 45810. Email: t-keiser@onu.edu.** Applications will be received until the position is filled. *Ohio Northern University is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are encouraged to apply.*

Augustana College seeks a Plant Geneticist, preferably with an emphasis in biotechnology, to fill a tenure-track position as **ASSISTANT PROFESSOR** of Biology. The successful applicant for this position will teach a sophomore-level course in genetics, teach an advanced-level course in molecular genetics/biotechnology, and participate with other staff members in teaching introductory biology. The successful applicant will also be expected to direct undergraduates in publishable research and to secure extramural funding to support that research. Initial start-up funds will include summer and January support. Qualified applicants must possess a Ph.D. in plant genetics, a broad understanding of plant biology, and experience in the application of statistics to biological problems. Evidence of scholarly activities and community/professional involvement is required, as well as a commitment to continued professional and scholarly growth and to the mission of a church-related college. Applications will be accepted until November 29, 1996 or until position is filled. Send letter of application, curriculum vitae, the names and telephone numbers of three current references, and a statement of educational philosophy to: **Dean of the College, Augustana College, Box 763, Sioux Falls, SD 57197. Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

### FACULTY POSITION BIOMEDICAL OPTICS VANDERBILT UNIVERSITY

The Department of Biomedical Engineering at Vanderbilt University is seeking to expand its faculty in the area of biomedical optical science. This position will be a regular full-time tenure-track or tenured faculty appointment at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. Duties will include research, graduate and undergraduate teaching, and leadership in the development of biomedical optics at Vanderbilt. The successful candidate will be expected to collaborate with the Vanderbilt Free Electron Laser Center and the School of Medicine in research. Candidates must have an earned doctorate in biomedical engineering, medicine, or a related field and must have demonstrated capabilities for independent research in biomedical optics. Consideration of applicants will begin upon receipt of applications and will continue until the position is filled. Interested candidates should send a curriculum vitae and the names of three references to the following address: **Thomas R. Harris, Chair, Department of Biomedical Engineering, Vanderbilt University, Box 1724, Station B, Nashville, TN 37235. FAX: 615-343-7919; Email: trh@vuse.vanderbilt.edu.** *Vanderbilt University is an Equal Opportunity/Affirmative Action university. Minority and women candidates are urged to apply.*

### THE UNIVERSITY OF MEMPHIS Faculty Position in Biochemistry

The Department of Microbiology and Molecular Cell Sciences invites applications for a tenure-track position in biochemistry. The appointment will be made at the rank of **ASSISTANT PROFESSOR**. Minimum qualifications are a Ph.D. degree and postdoctoral training. The successful candidate will be expected to develop a strong graduate research program and to provide quality teaching to undergraduate and graduate students. Review of applications will begin December 1, 1996 and continue until the position is filled. A curriculum vitae, a statement of research plans, reprints of the candidate's most significant publications, and at least three letters of recommendation should be sent to: **Dr. S. Edward Stevens, Jr., Chair, Department of Microbiology and Molecular Cell Sciences, Campus Box 526041, The University of Memphis, 201 Life Sciences Building, Memphis, TN 38152-6041.**

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

### ASSISTANT PROFESSOR PHARMACOLOGY

Wilkes University School of Pharmacy is seeking to fill two nine-month, **TENURE-TRACK** positions at the Assistant Professor level. Minimum requirement is a Ph.D. in pharmacology or related field. Preference will be shown to candidates who possess specialization in endocrine pharmacology (other specialties should also apply), an undergraduate degree in pharmacy from an ACPE-accredited school, and extramural funding, or who have taught at an ACPE-accredited School of Pharmacy. Experience with medicinal chemistry is a plus.

Applicants should submit a letter outlining professional goals, curriculum vitae, and a list of references to: **Dr. Arthur H. Kibbe, Chair, Department of Pharmaceutical Sciences, Wilkes University, School of Pharmacy, Wilkes-Barre, PA 18766.** Applications received by January 30, 1997 will receive first consideration. The search will continue until the positions are filled.

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

### DEVELOPMENTAL BIOLOGIST ASSISTANT PROFESSOR

The Department of Cellular Biology at the University of Georgia announces an opening for a **TENURE-TRACK** Assistant Professor, available September 1997. The successful candidate will be expected to have postdoctoral research experience and the capacity to generate a strong, independent, creative research program in animal developmental biology. Teaching will emphasize undergraduate and graduate developmental biology courses. To apply, send curriculum vitae, description of future research plans, statement of teaching philosophy, and at least four letters of recommendation to: **Search Committee, Department of Cellular Biology, Room 724 Biological Sciences Building, University of Georgia, Athens, GA 30602-2607.** Applications received by January 2, 1997 are assured of consideration. Learn more about us at <http://www.uga.edu/~cellbio>. *The University of Georgia is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### FACULTY POSITIONS IN ENTOMOLOGY

The Department of Entomology, North Carolina State University, invites applicants for two 12-month, tenure-track faculty positions. Both positions require a Ph.D. in entomology or related field, relevant training and experience, and a strong commitment to quality research and/or extension, publication, and teaching.

**ASSISTANT PROFESSOR** of Urban Entomology: A research (80%) and teaching (20%) position, to conduct fundamental and applied research on the biology of major wood-destroying arthropod pests in structures. Develop vigorous research program generating extramural funds and provide information on pest management technology to cooperative extension efforts in this area, the pest control industry, and other client groups. Teach a Structural Pest Management course in the Agricultural Institute, a two-year technical program, and participate in graduate instruction.

**ASSISTANT/ASSOCIATE PROFESSOR** of Veterinary Entomology: A research (70%) and extension (30%) position to develop an IPM program for poultry and livestock industries; work cooperatively with Animal and Poultry Science Departments and appropriate units in the College of Veterinary Medicine, with industry and governmental agencies. Procurement of extramural funding and advising graduate students are expected. Teaching responsibility for a course in Medical/Veterinary Entomology will be assigned in the future.

Application deadline is January 1, 1997 for both positions or until suitable applicants are found. Send letter of application; curriculum vitae; official graduate transcripts; reprints; and names, addresses, and FAX numbers of at least three references to: **Dr. James D. Harper, Department of Entomology, Box 7613, North Carolina State University, Raleigh, NC 27695-7613.** *An Equal Opportunity/Affirmative Action Employer.*

### ECOLOGY/EVOLUTIONARY BIOLOGY Assistant Professor

The Department of Biological Sciences, State University of New York at Buffalo, invites applications for a **TENURE-TRACK** position at the level of Assistant Professor starting in September 1997. We seek an individual working in the area of Molecular Ecology whose research addresses ecological and evolutionary questions using molecular genetic techniques such as manipulating the genome and following genetic markers within populations and species. The department has active research groups in ecology and molecular biology (including plant molecular biology) and we have identified molecular ecology as an area of future growth. The successful candidate will be expected to develop an active externally funded research program and to contribute to undergraduate and graduate courses in ecology, including a course in molecular ecology. Candidates should have a Ph.D. and two years of postdoctoral or equivalent experience. Applications, including a curriculum vitae, statement of research and teaching interests, and three letters of recommendation, should be submitted to: **Dr. Howard R. Lasker, Molecular Ecology Search Committee, Department of Biological Sciences, University at Buffalo, Buffalo, NY 14260-1300.** Application review will begin December 15, 1996. Information about the Department and the University can be viewed at: <http://wings.buffalo.edu/academic/departments/fism/bio-sci/index.html>.

*The State University of New York is an Equal Opportunity/Affirmative Action Employer, and encourages applications from minorities, women, and disabled persons. No applicant shall be discriminated against on the basis of age, creed, color, disability, nation of origin, religion, ethnicity, sex, sexual orientation, marital or veteran status.*

### BEHAVIORAL ECOLOGIST

Ph.D. required and postdoctoral experience preferred for a **TENURE-TRACK** position beginning fall 1997, at John Carroll University, the Jesuit University in Cleveland, offering B.S., M.S., and M.A. degrees. The successful candidate will have a strong commitment to undergraduate teaching. Primary responsibilities include a graduate-level course in behavior, undergraduate courses in evolution and ecology, and development of an active research program. Load is 12 credit hours per semester with three hours of research release time. Submit a letter of application, curriculum vitae, statements of teaching philosophy and research interests, estimate of start-up costs, and three letters of recommendation by 1 January 1997 to: **Dr. Miles Coburn, Department of Biology, John Carroll University, University Heights, OH 44118.** *An Equal Opportunity/Affirmative Action Employer; women and minorities encouraged to apply.*



## POSTDOCTORAL FELLOWSHIPS at the WOODS HOLE OCEANOGRAPHIC INSTITUTION

Applied Ocean Physics & Engineering  
Biology, Marine Chemistry & Geochemistry  
Marine Geology & Geophysics  
Physical Oceanography

Applications are invited from new or recent doctorates in the fields of biology, molecular biology, microbiology, chemistry, engineering, geology, geophysics, mathematics, meteorology and physics, as well as oceanography. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise.

Fellowships are awarded for 18 month appointments with a stipend of \$37,000 per year, a modest research budget and eligibility for group health insurance. Recipients are encouraged to pursue their own research interest in association with resident staff. Completed applications must be received by January 17, 1997 for the 1997-98 awards. Awards will be announced in March. Write for application forms to:

Dean of Graduate Studies, MS #31  
Woods Hole Oceanographic Institution  
Woods Hole, MA 02543-1541  
Or call (508) 289-2219  
or e-mail lcampbell@whoi.edu

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## Postdoctoral Positions

St. Jude Children's Research Hospital, a renowned center for biomedical research and treatment of pediatric cancers, has immediate openings for Postdoctoral Research Fellows to study a family of protein kinases involved in spliceosome structure, apoptotic signaling, and checkpoint control. At least 16 different protein kinase isoforms in this family are generated by alternative splicing from three distinct, but tandemly linked, genes. Several isoforms are targets of a CPP32-like protease during TNF and Fas induced programmed cell death (Lahti et al, Mol Cell Biol 15:1-11, 1995; Beyaert et al., EMBO J). This proteolytic processing is blocked by bel-2, crmA, and peptide inhibitors (e.g., AVAD). The mechanism(s) involved in activating/regulating these protein kinase(s) by ICE-like proteases, association with regulatory subunits, and phosphorylation are currently being investigated. Additional isoforms of this protein kinase family are expressed in a cell cycle-dependent manner and respond to DNA damage. The relationship between these protein kinases and checkpoint control is of particular interest. Projects require individuals with prior experience in molecular biology, cell biology, and/or biochemistry purifications. Recent Ph.D., M.D., or M.D./Ph.D. is required.

Please send a C.V. and three letters of recommendation to: **Dr. Vincent Kidd, Tumor Cell Biology Department, St. Jude Children's Research Hospital, 332 No. Lauderdale, Memphis, TN 38101.** An Equal Opportunity/Affirmative Action Employer.

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Oak Ridge, TN 37831-0117  
(423) 576-9975

Deadline January 15, 1997

## Research Scientist Genetic Toxicology



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Wyeth-Ayerst Research, a major division of Fortune 150 American Home Products Corporation, has an opportunity available for a Research Scientist in the Experimental Pathology Department at their Drug Safety Research facility in Chazy, New York.

Responsibilities include supervising genetic toxicology lab operations, as well as providing training, and assisting with development, validation and implementation of genetic toxicology test battery. This key position will require you to function as Study Director/Principal Investigator on GLP/non-GLP genetic toxicology studies, as well as to function as Study Monitor for external genetic toxicology studies. Additional responsibilities include researching and developing appropriate in vivo and in vitro procedures to expand genetic toxicology test battery and address mechanistic questions that arise during drug development. You will interact closely with Study Directors in Toxicology and Senior Drug Safety Management regarding scientific, regulatory and technical issues.

Requirements include a Ph.D. in Genetic Toxicology, Toxicology or related science, with a minimum of 3 years relevant experience with genetic toxicology testing in a GLP environment. Previous training and experience in cytogenetics are also required.

We are located in the scenic Adirondack Mountains/Lake Champlain region of New York state, just a short distance from Burlington, Vermont; Montreal, Quebec; and the Lake Placid/Olympic region.

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-2027,**

**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 (ASCII format, no attachments, subject: resume). Principals Only. Equal Opportunity Employer, M/F/D/V.

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## POSITIONS OPEN

### PLANT SYSTEMATIST

The University of Wisconsin, Department of Botany, seeks a distinguished Plant Systematist to assume a tenured professorial position, preferably at the **ASSOCIATE PROFESSOR** level. Duties include teaching, research, and directorship of the Wisconsin State Herbarium. The Department and Herbarium seek candidates whose training and/or abilities will expand the University's and Department's breadth in biosystematics including, but not limited to, tropical systematics, plant-animal interactions, paleobotany, morphological evolution, or fern systematics. The successful candidate will be expected to contribute to the development of systematic biology on the campus, provide leadership in the Herbarium, and develop an active program of research and instruction.

Applicants should send a curriculum vitae, a statement of research and teaching interests, current and long-term goals, and three letters of recommendation. The deadline for receiving applications is January 15, 1997, and the earliest start date is August 25, 1997. Send applications to: **Professor Kenneth J. Sytsma, Chair of Search Committee, Botany Department, University of Washington, Madison, WI 53706.**

Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality. *Affirmative Action/Equal Opportunity Employer.*

### FACULTY POSITION THE UNIVERSITY OF CHICAGO Department of the Geophysical Sciences

The department hopes to make an appointment, preferably at the **ASSISTANT PROFESSOR** level, during the 1997-1998 academic year. Areas of particular interest include: paleoceanography, broadly defined; low-temperature geochemistry, including marine chemistry and biogeochemistry; and crustal geology, including basin analysis. Considerations in the selection of faculty are: 1) demonstrated excellence in research and 2) effectiveness in teaching at the graduate and undergraduate levels. A successful candidate would be expected to build an independent research program, supervise students, teach, and make significant contributions to an area of the earth and planetary sciences. Prior to February 1, 1997, applicants should send 1) a curriculum vitae, 2) a statement of research plans, and 3) the names of five potential references to: **Appointments Committee, Department of the Geophysical Sciences, University of Chicago, 5734 South Ellis Avenue, Chicago, IL 60637.** Please include an Email address for future communications. *The University of Chicago is an Equal Opportunity/Affirmative Action Employer.*

### MARINE MOLECULAR ECOLOGIST

The Department of Biology and Microbiology at California State University, Los Angeles, is seeking a marine molecular ecologist for a tenure-track position at the level of **ASSISTANT PROFESSOR** beginning fall of 1997. Ph.D. required; postdoctoral experience preferred. Additional preference will be given to candidates experienced in the application of molecular genetic techniques to the ecology, evolution, or conservation of marine fish or mammal populations. The successful candidate will be expected to teach lower-division courses and to develop upper-division courses in the biology of lower vertebrates and in the genetics of conservation. He or she will be expected to seek extramural funding for research and to collaborate with environmental science colleagues in a growing program of undergraduate and M.S. student training and research. Submit curriculum vitae, statement of research plans, and three letters of reference by January 15, 1997, to: **Dr. Carlos Robles, Department of Biology and Microbiology, California State University, Los Angeles, CA 90032. Telephone: 213-343-2067; Email: crobles@hitide.CalStateLA.edu.**

*Equal Opportunity Employer. Reasonable accommodations for disabled persons may be requested.*

### MEDICAL DIRECTOR Ph.D. or Pharm.D.

Medical Education firm seeks a medical director due to growth and success in providing high quality medical education programs for its major pharmaceutical clients.

Experience in writing medical publications and other forms of medical communications. Ability to communicate well and participate in goal-directed teams. A Ph.D., Pharm.D., or M.D. is required. Experience in oncology is a plus. Mail résumé to: **Applied Clinical Comm., 1160 Parsippany Boulevard, Parsippany, NJ 07054. FAX: 201-316-5997.**

## POSITIONS OPEN



### PHARMACOLOGY FACULTY POSITION West Virginia School of Osteopathic Medicine

The Department of Pharmacology invites applications for a **TENURE-TRACK** position; appointment to be made at a level commensurate with experience. Ph.D. in pharmacology preferred; Ph.D. in related area may be considered. The successful applicant should have prior pharmacology teaching experience, particularly in the area of cardiovascular pharmacology. Research opportunities are available. Applicants should submit a letter describing their teaching experience and research interests, curriculum vitae, and three letters of reference to: **Chairperson, Pharmacology Search Committee, Human Resources Office, WVSOM, 400 North Lee Street, Lewisburg, WV 24901.** Applications will be accepted until the position is filled. *An Equal Employment Opportunity/Affirmative Action Employer.*

### ASSISTANT PROFESSORS University of Texas at Arlington

The Department of Biology invites applications for **TENURE-TRACK** positions (Assistant Professor) in Developmental Genetics and Comparative Animal Physiology. Applicants must have a Ph.D.; postdoctoral experience preferred. Responsibilities include developing a vigorous research program, directing graduate students, and teaching graduate and undergraduate courses. The Department offers B.S. degrees in biology, microbiology, and medical technology, and the M.S. and Ph.D. University of Texas at Arlington (UTA) is a comprehensive university with 22,000 students located between Dallas and Fort Worth. Applicants should submit a curriculum vitae (including Email address), a statement of research goals, and names of three references to: **Dr. Neal J. Smatresk, Chair, Department of Biology, Box 19498, The University of Texas at Arlington, Arlington, TX 76019 (www.uta.edu/biology/biology.html).** Application review will begin November 28, 1996, and will continue until the positions are filled. *UTA is an Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITIONS Cardiovascular Pharmacology Renal Pharmacology Human Pathophysiology Pharmaceutics Drug Metabolism

The Department of Pharmaceutical Sciences, Texas Tech School of Pharmacy, invites applications for five tenure-track, 12-month **ASSISTANT/ASSOCIATE PROFESSOR** positions. Seeking committed educators and exceptional researchers with postdoctoral training. Join faculty of nine in a new pharmacy school. Submit curriculum vitae; summary of research accomplishments and future plans; description of teaching philosophy; and names, addresses, and telephone numbers of three references to:

**Pharmaceutical Sciences Search Committee  
TTUHSC School of Pharmacy  
1300 South Coulter  
Amarillo, TX 79106**

Visit our home page: [www.ismo.ama.ttuhschool.edu](http://www.ismo.ama.ttuhschool.edu)  
*Women and minorities are encouraged to apply.*

**TENURE-TRACK FACULTY POSITION** is available in the newly formed Center for Biomaterials to study material-tissue interfacial behavior, with emphasis on molecular and cellular mechanisms. Areas of interest include tissue response, modification and characterization of surfaces, development of new biomaterials, and tissue engineering. The Center undertakes basic and applied biological and material science projects that are intended to elucidate mechanisms and result in new biomedical technologies. Significant support is available for laboratory start-up. A Ph.D., M.D., D.D.S., or equivalent is required. Candidates are sought who have demonstrated outstanding research achievement and the ability to attract external research support. Academic rank commensurate with accomplishments. Applicants should send a curriculum vitae; copies of recent significant publications; and brief descriptions of current research, future plans, and funding experience to: **Dr. A. Jon Goldberg, Director, Center for Biomaterials, MC1615, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030-1615. (Search Code: 95-241.)**

*An Affirmative Action/Equal Opportunity Employer. Minorities/Females/Persons with Disabilities/Veterans.*

## POSITIONS OPEN

### ASSISTANT DEAN FOR RESEARCH AND PROFESSOR University of Florida

**Institute of Food and Agricultural Sciences (IFAS)**

The **ASSISTANT DEAN** (tenured) will assist the Dean for Research/Director, Florida Agricultural Experiment Station, in administering the food, agricultural, and natural resources research programs, which involve faculty in 21 departments, 13 research and education centers (RECs), 6 multidisciplinary centers, the School of Forest Resources and Conservation, and the College of Veterinary Medicine.

The Assistant Dean will serve as a coordinator between various programs in departments and RECs as well as represent the Dean with clientele groups. Includes oversight of the CRIS system, management of commodity support funds, leadership of international research activities, and program responsibilities in accord with expertise.

Requires earned doctorate in a food, agricultural, natural resource, or closely related field. Outstanding research background, familiarity with Agricultural Experiment Station operations, and demonstrated administrative competency. Administrative experience at the departmental level preferred.

Nominations, or applications including a letter of interest, résumé and names and addresses of five references, should be sent no later than December 12, 1996, to: **Dr. Jerry M. Bennett, Search Committee Chair, Position 912900, Agronomy Department, P.O. Box 110500, Gainesville, FL 32611-0500.** Salary commensurate with qualifications and experience. *Candidates must accept and promote the Affirmative Action Plan of the University of Florida. Women and minorities encouraged to apply.*

### ASSISTANT PROFESSOR MOLECULAR BIOLOGY OF AGING

The Department of Physiology and the Sanders Brown Center on Aging at the University of Kentucky College of Medicine invite applications for a **TENURE-TRACK** position at the Assistant Professor level. We seek an individual who will establish a strong research program that emphasizes the use of molecular biological approaches to study age-related changes in physiological functions and who will participate in our teaching program. Special consideration will be given to candidates who complement existing strengths in the center on aging including the study of Alzheimer's disease and/or mechanisms of oxidative damage, neuron-glia interactions, and/or neuronal plasticity. Candidates with training in other molecular and cellular aspects of aging will also be considered. Interactions with faculty within the College of Medicine, School of Biological Sciences, and the Markey Cancer Center provide a particularly stimulating research environment.

Applicants must have a Ph.D. and/or M.D. degree and at least three years of postdoctoral experience. Interested individuals should send a curriculum vitae, a detailed statement of past experience and future research plans, and three letters of reference to: **Dr. Phyllis M. Wise, Chair, Department of Physiology, College of Medicine, University of Kentucky, Lexington, KY 40536-0084.** Review of applications will begin on December 20, 1996.

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

### POSTDOCTORAL FELLOW AND RESEARCH ASSISTANT PROFESSOR Dynamic Monitoring of Gene Expression in Single, Living Cells

Photon-capture, video-imaging of cells transfected (by microinjection) with promoter-driven luciferase constructs is used for making multiple measurements of gene expression from the same living cells (*Molecular Endocrinology*, 10:599-605, 1996). This enables dynamic, "real-time" studies of molecular mechanisms underlying physiologic and pathophysiologic processes. Ongoing projects relate to neuroendocrinology, cancer biology, and toxicology. Experience with molecular techniques desirable but not essential. Salaries and benefits are highly competitive. Please send curriculum vitae along with names and telephone numbers of three references to: **L. Stephen Frawley, Ph.D., Department of Cell Biology and Anatomy, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. FAX: 803-792-0664; Email: frawley@MUSC.edu.** *Women and minorities are encouraged to apply. An Equal Opportunity/Affirmative Action Employer.*

## SENIOR IMMUNOLOGIST

Merck Research Laboratories has an immediate opening for a Senior Immunologist with a strong background in cellular signaling mechanisms and extensive experience in a broad range of molecular and cell biological techniques. The successful candidate will have a significant publication record, excellent oral and written communication skills, and be committed to the discovery of novel medicines to ameliorate immune and inflammatory diseases. A Ph.D., M.D. or equivalent, and minimum of 2 years post-doctoral experience are required. Experience with computer-based data acquisition and analysis is desirable.

Send cover letter and resume to:  
**Dr. Michael J. Tocci, P.O. Box 2000,  
Dept. of Immunology and  
Inflammation, Merck Research  
Laboratories, Rahway, NJ 07065.**  
e-mail: michael\_tocci@merck.com  
Fax: (908) 594-1051. EEO/AA/VH/  
Employer.



## RESEARCH SCIENTISTS

Zeneca Pharmaceuticals, dedicated to the challenge of discovering and developing important new therapeutic agents, has openings for Senior Staff Scientists in the Wilmington, DE research facility to plan and conduct laboratory experiments in molecular and cellular pharmacology, focusing on respiratory, inflammatory and neurological diseases.

Qualified candidates will have a BS/MS degree in Molecular Biology, Cell Biology, Pharmacology or related field, and 5 or more years' laboratory experience. This should include considerable experience in standard recombinant DNA technology (expression cloning, Northern/Southern analysis, PCR, library construction, *in situ* localization). Cell culture and protein biochemical skills are essential. Solid computer and bioinformatics skills (GCG, ENTREZ, Lasergene) are expected. Experience with development of *in vitro* screening assays (receptor binding, enzyme assays and ELISA) is helpful. Working knowledge of either respiratory, immunology or CNS pharmacology is desirable, but not essential.

We offer an excellent compensation and flexible benefits program, and opportunities for growth with one of the world's leading pharmaceutical research organizations. For confidential consideration, please send your resume with salary requirements to: **Darla Wilson, Human Resources, Code 96-4731, Zeneca Pharmaceuticals, 1800 Concord Pike, P.O. Box 15437, Wilmington, DE 19850-5437.** An Equal Opportunity Employer M/F.

**ZENECA**  
Pharmaceuticals

A Business Unit of Zeneca Inc.



## SENIOR ENVIRONMENTAL MICROBIOLOGIST

Join an entrepreneurial, industrial microbiological products company engaged in tackling world problems in aquaculture, agriculture and bioremediation. Epicore Networks Inc. is seeking a senior microbiologist to lead programs in research, development and fermentation production support.

Enhance your know-how by working alongside the father of modern bioremediation, Dr. Howard E. Worne. Lead a small, but growing team of technical professionals involved in laboratory, field and contracted university application-oriented studies, as well as laboratory-scale tank and tray fermentation optimizations. Build your own technical organization as Epicore continues its successful growth.

Candidates should have an advanced degree, Ph.D. preferred, in microbiology and 7 or more years of relevant industry experience, including supervision of a scientific team. The successful candidate will be self-motivated, innovative and results-oriented. Ability to function effectively in diverse teams is a must. Excellent problem-solving and communications skills are required.

We offer a competitive compensation and benefits package. Epicore is located in rural central New Jersey, between Philadelphia and the Atlantic Coast.

Epicore is an equal opportunity employer.

Interested candidates should fax their resume to:

**William P. Long, Vice President Operations  
Epicore Networks (USA) Inc.  
1507 Route 206, Mount Holly, NJ 08060  
Fax 609-267-9336**

## Penn State College of Medicine

### Graduate Studies and Postdoctoral Training

#### Cell and Molecular Biology

Interdisciplinary research is available in eight basic and clinical science departments. Areas of research interest include: Membrane structure, receptors, and modulators; Extracellular matrix and cell function; Organelle assembly, structure, and function; Cell division, differentiation, and gene regulation; Gene mapping; Molecular interface between cells and viruses; Cellular and molecular immunology

#### College of Medicine Programs

Anatomy  
Biochemistry and Molecular Biology  
Cell and Molecular Biology  
Microbiology and Immunology

Neuroscience  
Pharmacology  
MD/PhD Program  
PhD/MBA Program

#### Inter-College Programs

Bioengineering  
Genetics  
Nutrition

Physiology  
Integrative Biosciences

**For more detailed information and to apply  
visit our WWW site at <http://www.hmc.psu.edu> or contact**

Assistant Dean for Graduate Education, Penn State College of Medicine,  
Hershey, PA 17033-0850, Telephone: (717) 531-8892  
Fax: (717) 531-4582; E-mail: grad-hmc@psu.edu

PENNSTATE



College of Medicine  
University Hospital - Children's Hospital  
The Milton S. Hershey Medical Center

Penn State is an affirmative action, equal opportunity university.

## POSITIONS OPEN

### ASSISTANT PROFESSOR OF MICROBIAL ECOLOGY

The Department of Biology at Virginia Tech invites applications for a **TENURE-TRACK** Assistant Professor position for August 1997. Applicants should have post-doctoral experience and background in microbial ecology. The successful candidate will develop a competitive research program and participate in undergraduate and graduate teaching. We are especially seeking candidates with experience and/or interest in field-oriented research in freshwater or wetland ecosystems who are willing to collaborate with established programs in the department. A letter of application, curriculum vitae, statement of both research and teaching goals, and names of three references should be received by 15 January 1997. Correspondence should be sent to: **E. F. Benfield, Department of Biology, Virginia Tech, Blacksburg, VA 24061-0604.** *Virginia Tech has a strong commitment to increasing the diversity of the faculty and seeks a broad spectrum of candidates including women, minorities, and people with disabilities. Individuals with disabilities desiring accommodations in the application process should notify Dr. Benfield (540-231-5802 or 1-800-828-1120) by the application deadline.*

### DEVELOPMENTAL BIOLOGIST University of Toronto

The Department of Zoology, University of Toronto, invites applications for a **TENURE-TRACK** position at the Assistant Professor level to begin July 1, 1997. We are particularly interested in applicants using molecular and genetic approaches to problems in development. The Department of Zoology has traditional strengths in cell/developmental biology, evolution, ecology, and animal physiology, which provide a stimulus for interdisciplinary interactions. The successful applicant is expected to develop an internationally recognized research program and to teach at the undergraduate and graduate level. Applicants with a Ph.D. and postdoctoral experience in a relevant field should send a curriculum vitae and a one-page statement of future research plans, and should arrange for three letters of reference to be sent to: **Chair, Developmental Biology Search Committee, Department of Zoology, University of Toronto, Toronto, Ontario M5S 3G5 Canada.** The deadline for receipt of complete applications is February 1, 1997. *In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. The University of Toronto encourages applications from qualified women or men, members of visible minorities, aboriginal people and persons with disabilities.*

### A & PC

A & PC is a rapidly expanding biotechnology company specializing in the development of biotherapeutic agents for treatment of cancer, AIDS, autoimmune diseases, and complications of organ transplantations.

We are currently seeking 10 qualified, highly motivated individuals to serve as **TECHNICIANS** to assist Staff Scientists in the following areas of research: molecular biology, biochemistry, and signal transduction. Individuals with an M.S. or advanced degree are encouraged to apply.

Salary is contingent upon experience. Send curriculum vitae and three references by November 30, 1996 to:

**A & PC  
Attn: Human Resources  
P.O. Box 130517  
St. Paul, MN 55113**

*An Equal Opportunity Employer.*

**OCEANOGRAPHER** (GS-1360-11/12). Salary \$36,426 to \$56,759. Permanent, full-time position at the NOAA/NMFS Pacific Fisheries Environmental Group in Pacific Grove, California. We seek a physical oceanographer interested in the interface between oceanography and applied fisheries. General research goals are to accurately describe ocean variability and its ecological consequences; initial research emphasis will be on west coast salmon. This requires an interdisciplinary understanding of environmental processes relative to living marine resources. Further information is available at <http://www.pfeg.noaa.gov/jobs>. Apply with the U.S. Office of Personnel Management, San Francisco Service Center, 8011 I Street, Room 164, Sacramento, CA 95814 or via electronic bulletin board: 912-757-3100. Announcement number FS-6-1435 (SKY). Application deadline: 27 November 1996. For information call: **Jeanie Nichols, Telephone: 206-526-6067.** *Equal Opportunity Employer.*

## POSITIONS OPEN

### CHILDREN'S HOSPITAL OAKLAND RESEARCH INSTITUTE Research Associate/Scientist Cardiovascular Physiology

Our laboratory is currently pursuing investigational work in myocardial protection/reperfusion injury and cardiac preconditioning. We are also involved in collaboration with Lawrence Berkeley National Laboratory and its Center for Functional Imaging in NMR studies of intracellular ion fluxes in ischemic and cardioplegic animal myocardial models. Candidates should have a Ph.D. or M.D. and a strong background in cardiovascular physiology. Preference will be given to applicants with pre-existing and transferable grants relative to cardiovascular physiology. Position available as of July 1, 1997. Interested candidates should send curriculum vitae and names of three references to: **J. Nilas Young, M.D., Chairman, Department of Surgery, Chief, Division of Cardiac Surgery, Children's Hospital Oakland, 747—52nd Street, Oakland, CA 94609.**

### UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH SERVICE

The United States Department of Agriculture (USDA), Agricultural Research Service (ARS), Pollinating Insect-Biology, Management, Systematics Research, Logan, Utah, is accepting applications for a permanent, full-time **RESEARCH LEADER and SUPERVISORY RESEARCH ENTOMOLOGIST**. This position will develop a program to identify chemophysiological traits responsible for gregarious nesting behavior of bees that nest in the soil. Candidates should have a strong working knowledge of insect biology, foraging behavior, ecology, and physiology. Responsibilities as Laboratory Leader require managerial and leadership experience in areas of crop pollination, biology of pollinator species, and bee conservation. A Ph.D. in entomology or related discipline with emphasis in physiology is desired. Experience with statistical methods and computer programs is essential. *Applicant must be a U.S. citizen.* Salary range is \$51,915 to \$79,754. For a copy of announcement number ARS-D7W-007 and application forms, please call: **John Watterson, USDA, ARS, Location Administrative Officer, Telephone: 801-797-3071.** Specific questions regarding the position may be directed to: **Philip F. Torchio, Telephone: 801-797-2520.** The closing date for this announcement is November 18, 1996. *USDA, ARS is an Equal Opportunity/Affirmative Action Employer.*

**BIOLOGIST/MICROBIOLOGIST** to teach basic course in general biology for majors and general microbiology course on rotating basis. Opportunities for developing upper-level courses and participating in cell biology and biochemistry research semester exist. Excellent sources for research and field study lie in the Adirondack Mountains and North Country lakes, including Lake Champlain Research Institute. Ph.D. with a broad background in biology and microbiology is required. Candidates must be committed to excellence in teaching at an undergraduate liberal arts college with an understanding of, and sensitivity to, minority and gender concerns. Applicants please send résumé, transcripts, three letters of recommendation, statement of teaching philosophy, and summary of potential research to: **Chair, Search Committee (PJ 2021-SCI), c/o Personnel Department, SUNY Plattsburgh, 101 Broad Street, Plattsburgh, NY 12901-2981.** Review of applications begins January 10, 1997 and continues until position is filled; expected appointment September 1997. *Equal Opportunity/Affirmative Action Employer.*

### B.S./M.S. SCIENTIST—BIOCHEMISTRY

A **SCIENTIST** is sought to carry out protein sequencing and prepare synthetic peptides in a new Biotechnology Resource Laboratory. This job includes management of a protein chemistry core facility, under direction of a supervisor. Applicants must have a B.S. or M.S. in biochemistry, chemistry, or biology, with three or more years of experience in the operation of a protein sequenator and peptide synthesizer. To apply, send curriculum vitae to: **Dr. W. Scott Argraves, Department of Cell Biology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425.** Email: [argraves@muscc.edu](mailto:argraves@muscc.edu).

## POSITIONS OPEN

### PLANT BIOLOGIST

One-year position at the **ASSISTANT PROFESSOR** level. Responsibilities include teaching an introductory course, plant portion of intermediate course in development, local flora course or topics in plant biology course, and supervising student research. Send statement of teaching and research interests, curriculum vitae, recent reprints, list of relevant courses, and transcript. Please arrange to have three letters of recommendation sent by December 2, 1996 to: **Dr. Diana Stein, Department of Biological Sciences, Mount Holyoke College, South Hadley, MA 01075.** FAX: 413-538-2548. *Mount Holyoke College is committed to fostering cultural diversity and multicultural awareness in its faculty, staff, and students and is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.*

### DEKE SLAYTON CENTER FOR BRAIN CANCER STUDIES Northwest Hospital, Seattle, Washington

The Deke Slayton Center for Brain Cancer Studies is a recently established clinical, basic science and educational center with the mandate to understand, treat, and cure brain cancer. Applications are sought for a basic science researcher at the level of **ASSOCIATE/FULL MEMBER** with an established program to focus at the molecular/cellular level on the etiology of brain cancer. Areas of interest include, but are not limited to: transcriptional regulation, cell cycle regulation, and oncogenes/tumor suppressor genes, as well as an interest in translational research and application of findings to the clinic. The basic science arm of the Deke Slayton Center for Brain Cancer Studies functions in the Research Division of the Northwest Hospital, which occupies 22,500 square feet of newly renovated laboratory space. Northwest Hospital offers a highly competitive salary/benefit and start-up package.

Reply with a curriculum vitae, a one- to two-page description of research interests, and funding history to: **Alton L. Boynton, Ph.D., Chair, Search Committee, Department of Molecular Medicine, Northwest Hospital, Seattle, WA 98125.** Telephone: 206-368-3008; FAX: 206-368-3009; Email: [aboynton@nwbio.org](mailto:aboynton@nwbio.org).

The U.S. Environmental Protection Agency (EPA), Western Ecology Division, is seeking candidates for three vacant positions.

1) **ECOLOGIST**, GS-408-12, at Corvallis, Oregon, with knowledge of landscape ecology required.

2) **RESEARCH FISHERY BIOLOGIST**, GS-482-12, at Newport, Oregon, with knowledge of the effects of anthropogenic and/or natural stressors on marine or estuarine fishery populations.

3) **ECOLOGIST**, GS-408-13, at Newport, Oregon, with knowledge of the effects of anthropogenic and/or natural stressors on animal or plant populations or communities in marine or estuarine ecosystems.

Please contact: **Pam Taylor, Personnel Assistant, Telephone: 541-754-4582** for more information on how to formally apply.

*EPA is an Equal Opportunity Employer.*

**FELLOWSHIP** in molecular biology in the Experimental Lab, Division of Cardiology, to join a multidisciplinary team of scientists and conduct research to identify the molecular mechanisms underlying myocardial ischemic preconditioning. Must hold a Ph.D. or M.D.; have three years of experience in biochemistry or molecular biology; and be very skilled with general molecular biology techniques including RNA purification and Northern blotting, PCR, CAT assay, cDNA library, molecular cloning and sequencing, protein purification, Western immunoblotting, and cell culture techniques. Submit curriculum vitae, three references, and letter of application to: **Dr. Roberto Bolli, Chief, Division of Cardiology, University of Louisville, 550 South Jackson Street, Louisville, KY 40292.** *Equal Employment Opportunity/Affirmative Action.*

### POSTDOCTORAL POSITION

Available immediately to study cytotoxic T cell responsiveness to bovine respiratory syncytial virus proteins expressed in a prokaryotic system. Applicants should have a strong background in cellular immunology and molecular biology. Screening begins immediately and will continue until the position is filled. Send curriculum vitae and the names of three references to: **James A. Roth, MIPM, College of Veterinary Medicine, Iowa State University, Ames, IA 50011.** FAX: 515-294-8259. *Iowa State University is an Equal Opportunity/Affirmative Action Employer.*

## Harvard Medical School - McLean Hospital Alcohol and Drug Abuse Research Center

Applicants are invited to apply for post-doctoral research training (National Research Service Awards) at the Alcohol and Drug Abuse Research Center on the grounds of McLean and at the Harvard Medical School.

The Alcohol and Drug Abuse Research Center is a multidisciplinary research program which includes basic, clinical and treatment research. Trainees may participate in research on the molecular and behavioral pharmacology of substance abuse; the neuroendocrine consequences of cocaine, heroin and alcohol abuse; the effects of drug abuse on the brain as assessed by brain imaging techniques (MRI, MRS, SPECT, and EEG); the evaluation of the safety and effectiveness of new pharmacotherapies for the treatment of drug abuse. The research program emphasizes analysis of the antecedents of consequences of drug abuse by women. McLean Hospital is an affiliate of the Harvard Medical School and the Massachusetts General Hospital and is located in Belmont, MA, a suburb of Boston. Salary is commensurate with experience (PGY 1 to PGY 7).

Please send a curriculum vitae, reprints of some recent papers, a brief statement about research interests and goals, and the names of three references (including complete addresses and telephone numbers) to:

Jack H. Mendelson, Professor of Psychiatry (Neuroscience) or Dr. Nancy K. Mello, Professor of Psychology (Neuroscience), Co-Directors, Alcohol and Drug Abuse Research Center, McLean Hospital, 115 Mill Street, Belmont, MA 02178.

McLean Hospital is an AA/EEO employer and is committed to diversity in the workplace.



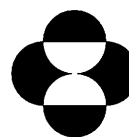
McLean Hospital

## SENIOR RESEARCH CHEMIST

The Pharmaceutical Research and Development Department of Merck Research Laboratories, a leader in pharmaceutical and biological research, has a career opportunity for a Ph.D. level scientist or equivalent with training in biopharmaceutics, biochemistry, physiology or a related discipline and 1-5 years of postdoctoral experience in either academia or industry.

Responsibilities include designing and conducting preclinical studies to determine how formulation variables influence drug absorption and disposition and development of methodology for successful completion of these studies. Knowledge of pharmaceuticals and drug delivery, pharmacokinetics and physiology both for interpretation of preclinical biopharmaceutics experiments and for successful interaction with formulation development, chemistry, metabolism and toxicology groups is required. Demonstrated experience in designing and conducting in vivo preclinical or isolated tissue studies is also essential. Experience with HPLC/spectrophotometric or mass spectrometry and radiotracer analysis for quantitation of low level xenobiotics in biological materials is preferred. The successful candidate must have good oral and written communication skills.

Excellent salary and benefits programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia. Please send resume with cover letter to Ad # D-75, MRL Human Resources WP42-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486. Only candidates selected for interviews will receive responses. EEO/AA/VH Employer.



**MERCK**  
Research Laboratories



The Biology Department at Swarthmore College invites applications for two different 1-year faculty leave replacement positions at the assistant professor level,

each beginning September 1997. Applicants should have a Ph.D., teaching experience, and a strong commitment to undergraduate education. All application materials should be received by January 6, 1997.

**MICROBIOLOGY:** Teaching is expected to include general microbiology, an advanced undergraduate seminar, preferably in the area of prokaryotic gene expression, and participation in the Department's team-taught introductory biology course. Interested persons should submit a curriculum vitae, three letters of recommendation, and a statement of teaching and research interests to: **Dr. Amy Vollmer, Microbiology Search, Department of Biology, Swarthmore College, Swarthmore PA 19081.**

**ANIMAL PHYSIOLOGY:** Teaching is expected to include general animal physiology, an advanced undergraduate seminar in animal physiology or biomechanics, and participation in the Department's team-taught introductory biology course. Interested persons should submit a curriculum vitae, three letters of recommendation, and a statement of teaching and research interests to: **Dr. Sara Hiebert, Animal Physiology Search, Department of Biology, Swarthmore College, Swarthmore, PA 19081.**

*Swarthmore College is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.*

## FACULTY POSITION MOLECULAR BIOLOGIST OF MUSCULOSKELETAL TISSUES

The Department of Orthopaedics and the Department of Microbiology and Molecular Genetics at UMDNJ-New Jersey Medical School invite applications for a tenure-track faculty position. Preference will be given to applicants with research programs in cell and molecular biology relating to musculoskeletal tissue.

The successful candidate will be expected to establish an independent research laboratory within the Department of Orthopaedics in close collaboration with its established Biomechanics/Biomaterials Unit and the Department of Microbiology and Molecular Genetics. Appointment is expected at the level of Assistant Professor; however, distinguished applicants at senior levels will also be considered with support commensurate with the candidate's qualifications and experience.

Applicants should submit a complete curriculum vitae including future research plans to: **Fred F. Behrens, M.D., Chairman, Department of Orthopaedics, New Jersey Medical School - UMDNJ, Doctors Office Center, 90 Bergen Street, Suite 5200, Newark, New Jersey 07103.** The UMDNJ is an Affirmative Action/Equal Opportunity Employer, m/f/d/v, and a member of the University Health System of New Jersey.



UMDNJ  
NEW JERSEY

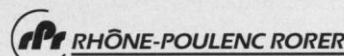
## Associate Research Fellow

Rhône-Poulenc Rorer, a global leader in the pharmaceutical industry, is seeking an Associate Research Fellow for their suburban Philadelphia headquarters.

Candidate will be responsible for identifying novel signaling pathways/molecules involved in macrophage adhesion, activation, and in apoptosis; collaborating with other scientists to validate potential therapeutic targets; and supervising/training staff. Duties also include writing research reports and presenting results at internal and external meetings.

To qualify, you should have a minimum of 5-7 years postdoctoral experience and a Ph.D. in Cell Biology or related field. Expertise in cell biology of monocytes/macrophages, signal transduction biology, and in vivo and in vitro analysis of adhesion, activation, cytoskeleton, and apoptosis required. Some pharmaceutical experience is necessary.

Rhône-Poulenc Rorer offers competitive salary, excellent benefits, a highly challenging work environment, and opportunities for advancement. Qualified candidates should send their resume which must include salary requirements to: **Rhône-Poulenc Rorer Research & Development, Position GMD, P.O. Box 5096, Mail Stop H37, Collegeville, PA 19426-0800.** Equal Opportunity Employer, M/F/D/V.





## POSITIONS OPEN

NEXTRAN, an established leader in xenotransplantation research and an affiliate of Baxter Health Care, has a position available for a **RESEARCH SCIENTIST** in our Xenotransplantation Program.

Candidates for this position must have a Ph.D., with a minimum of two years of postdoctoral training. We are seeking an experienced immunologist with strong working knowledge of transplant immunology and/or molecular immunology. Experience with transgenic animal models is a plus.

NEXTRAN offers an excellent working environment, as well as competitive compensation and superior benefits. Qualified applicants are invited to submit a curriculum vitae to:

**Human Resources  
NEXTRAN  
303B College Road East  
Princeton, NJ 08540  
FAX: 609-520-9864**

**ENVIRONMENTAL CHEMIST** with an interest in organic chemistry. Ph.D. in the area required. Successful candidate must be able to teach organic, general, and environmental chemistry as well as advanced courses in the field.

The development of a research program that actively involves undergraduates is expected. Candidates must be committed to excellence in teaching at an undergraduate liberal arts college with an understanding of, and sensitivity to, minority and gender concerns. Applicants please send résumé, three letters of recommendation, transcripts, and summary of potential research to: **Chair, Search Committee (PJ 2018-SCI), c/o Personnel Department, SUNY Plattsburgh, 101 Broad Street, Plattsburgh, NY 12901-2981.** Review of applications begins January 10, 1997 and continues until position is filled; expected appointment September 1997. *Equal Opportunity/Affirmative Action Employer. Underrepresented minority scientists are especially encouraged to apply.*

## SUPERVISORY ENVIRONMENTAL HEALTH SCIENTIST

The National Center for Environmental Assessment/RTP Office (NCEA/RTP) of the U.S. Environmental Protection Agency (EPA) is seeking candidates for a Supervisory Environmental Health Scientist position, GS 14/15 (\$61,348 to \$93,811 per year, based on qualifications), located at Research Triangle Park, North Carolina. The principal duties include responsibilities as Chief of the Hazardous Pollutant Assessment Group (HPAG) in directing the day-to-day functioning of the HPAG in its effort to conduct detailed assessments of health and welfare effects associated with pollutants, and supervising the HPAG staff (i.e., plans, organizes, directs, and coordinates all Group activities). *Only U.S. citizens are eligible.* Essential qualifications include an advanced degree with major study in health or allied sciences appropriate to the work of the position; at least one year of specialized experience in health risk assessment; publications and presentations at national meetings on toxicology and/or health risk assessment topics; and knowledge of supervisory and management practices, theories, and techniques and evidence of effective coordination of team work efforts. Please submit a résumé, SF-171 or OF-612, and supporting documentation by November 29, 1996 to: **Jessie Hopkins, U.S. EPA, (Mail Code 3648) 401 M Street, S.W., Washington, DC 20460. Telephone: 202-260-2965.** *EPA is an Equal Opportunity/Affirmative Action Employer.*

## POSTDOCTORAL POSITION Harvard Medical School Massachusetts General Hospital

Applications are invited for a postdoctoral position as an **ASSOCIATE** to work in the laboratory of **Dr. Joel F. Habener**. A candidate with outstanding potential and dedication to a career in discovery-oriented biomedical research is sought to undertake challenging research into the cellular mechanisms involved in the developmental and metabolic regulation of key genes in the endocrine pancreas. The emphasis of the research program is to understand the genetic and regulatory defects that contribute to the disease Diabetes Mellitus. Please forward curriculum vitae and three letters of recommendation to:

**Dr. Joel F. Habener  
Massachusetts General Hospital  
50 Blossom Street  
Wellman 306  
Boston, MA 02114  
*Equal Opportunity Employer***

## POSITIONS OPEN



## POSTDOCTORAL POSITION Department of Pharmacology Duke University Medical School

A **POSTDOCTORAL POSITION** is available to study the molecular mechanism of action of steroid hormone receptors. The successful candidate will use a combination of molecular and biochemical approaches to define the mechanism(s) that permit endocrine target cells to distinguish between hormone- and anti-hormone-activated estrogen and progesterone receptors.

Applicants should have a background in molecular biology or protein chemistry. Interested individuals should submit a curriculum vitae and three letters of reference to:

**Dr. Donald P. McDonnell  
Department of Pharmacology  
Box 3813  
Duke University Medical School  
Durham, NC 27710  
Email: McDon016@acpub.duke.edu  
*Duke University is an Equal Opportunity/Affirmative Action Employer.***

## POSTDOCTORAL POSITION

A **POSTDOCTORAL POSITION** is available immediately to study drug- and disease-induced regulation of gene expression in the CNS. The project involves: 1) cloning of the gene(s) whose expression is influenced by either drug treatments or neuropsychiatric disorders; 2) elucidating the function(s) of the genes in the CNS; and 3) characterizing the factors governing the regulation of the genes. The successful candidate will have a Ph.D. in Molecular Biology, or in a related discipline with experience in gene cloning, PCR, RNA protection assays, and regulation of gene expression in mammalian systems. Interested applicants should send curriculum vitae, statement of research interests, plus names and addresses of three references to: **Hussein K. Manji, M.D., Schizophrenia and Mood Disorders Clinical Research Division, Department of Psychiatry and Behavioral Neurosciences, Wayne State University School of Medicine, UHC 9B, 4201 St. Antoine Boulevard, Detroit, MI 48201. Telephone: 313-966-7544; Email: hmanji@med.wayne.edu.** *Wayne State University is an Equal Opportunity/Affirmative Action Employer. All Wayne State University buildings, structures and vehicles are smoke-free. Wayne State University—People working to provide quality service.*

## POSTDOCTORAL POSITION Indiana University Medical Center

Immediate opening available for three years for an electrophysiologist with experience in patch clamp techniques to study the role of ion channels in the cellular response of bone to mechanical strain and calciotropic hormones. Experience with cell culture techniques desired. Send curriculum vitae, three references, and statement of research experience to:

**Dr. Randall L. Duncan  
Department of Orthopaedic Surgery  
Indiana University Medical Center  
541 Clinical Drive, Suite 600  
Indianapolis, IN 46202  
Email: rduncan@indyunix.iupui.edu**

*Indiana University and Indiana University Medical Center are Equal Opportunity/Affirmative Action Employers.*

**POSTDOCTORAL FELLOWSHIPS** available (U.S. citizens/permanent residents) for structural and functional characterization of imidazole/guanidinium receptive sites and their role in cardiovascular/neurological disease. Research efforts include structural dissection of the imidazole binding domain on monoamine oxidases and the influence of this domain on enzyme function in health and disease. Fellow expected to possess or be capable of developing expertise in protein chemistry and molecular/cellular biology. Send curriculum vitae and three letters of reference to: **Stephen M. Lanier, Ph.D., Department of Pharmacology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425.** *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

## BME DISTINGUISHED POSTDOCTORAL FELLOWSHIPS

The Department of Biomedical Engineering (BME) at Johns Hopkins University invites applications for the Distinguished **POSTDOCTORAL FELLOWSHIPS**. This program is sponsored by the Whitaker Foundation. The aims of this program are: 1) to promote an interdisciplinary approach to the study of complex biomedical systems, and 2) to provide the very best of the recently graduated Ph.D.'s an opportunity to perform independent research in a supportive environment. The fellowships will provide each recipient the freedom to conduct highly visible research while drawing upon the material resources and scientific expertise of the established laboratories of the BME faculty sponsors. Each recipient will be sponsored by two faculty from any of the following areas of concentration: biomedical imaging, biomaterials, cardiovascular systems, molecular and cellular systems, sensors and instrumentation, systems neurobiology, and theoretical and computational biology. Salary will be \$30,000 per year, with additional funds to cover health insurance. The duration of the fellowship is two years.

Interested applicants should submit a curriculum vitae, two letters of reference, and a two-page description of their research interests and previous work to: **Dr. Murray Sachs, Director, Department of Biomedical Engineering, 720 Rutland Avenue, Baltimore, MD 21205.** Deadline for receipt of applications is December 15, 1996.

For more information, see: <http://www.bme.jhu.edu>.

*The Johns Hopkins University is an Equal Opportunity/Affirmative Action Institution.*

Three positions available: **STAFF ASSOCIATE/Molecular Biology**, focusing on molecular and biochemical aspects of radioresistance and checkpoint control in mammals and yeast. (**Dr. H. B. Lieberman's lab.**)

**ASSOCIATE RESEARCH SCIENTIST/Molecular Biology**, to determine the functional inactivation of ATM gene on chromatin structure. (**Dr. Pandita's lab.**)

**POSTDOCTORAL RESEARCH SCIENTIST/Radiation Biology**, to study potential "fingerprints" of the effects of radiation on cells and to investigate the cellular effects of irradiation at low dose-rate. Experience using FISH technique to look at intra- and interchromosomal aberrations essential. (**Dr. D. J. Brenner's and Dr. E. J. Hall's labs.**) Please send curriculum vitae to the investigator: **Center for Radiological Research, Columbia University, 630 West 168th Street, New York, NY 10032. FAX: 212-305-3229.** *We are an Affirmative Action/Equal Opportunity Employer.*

A **POSTDOCTORAL POSITION** for an exciting project in the cell biology of atherosclerosis is available in the Division of Molecular Medicine at Columbia University. Candidate must have experience in cell culture and standard biochemistry techniques and should be knowledgeable in the field of intracellular membrane trafficking and endocytic pathways. Experience with fluorescence microscopy and/or electron microscopy is strongly desired. Send curriculum vitae and three references to: **Dr. Ira Tabas, Department of Medicine, Columbia University, 630 West 168th Street, New York, NY 10032.** *Equal Opportunity/Affirmative Action Employer.*

## POSTDOCTORAL OR RESEARCH ASSOCIATE POSITION

To develop recombinant polyclonal antibody libraries for immunotherapy against cancer and infectious diseases. Some experience in molecular biology, cell culture, and immunological methods required. Experience with phage display a plus. Send curriculum vitae and three reference letters to: **Dr. Jacqueline Sharon, Boston University School of Medicine, 80 East Concord Street, K707, Boston, MA 02118. FAX: 617-638-4079; Email: jsharon@acs.bu.edu.** *Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** available: For studies on regulation of cytokine production by respiratory epithelial cells. Experience with epithelial cell culture and/or *in situ* hybridization required. *American citizen or permanent resident status required by terms of grant funding.* Send curriculum vitae to: **Melvin Berger, M.D., Ph.D., Professor of Pediatrics, Case Western Reserve University, Rainbow Babies and Childrens Hospital, 11100 Euclid Avenue, Cleveland, OH 44106.** *Case Western Reserve University is an Affirmative Action/Equal Opportunity Employer.*

## RESEARCH ASSOCIATES

### Molecular Biology • Cell Culture • Animal Science

**DNX Transgenics** is a leader in providing transgenic animal development and research capabilities to the biomedical research community. Due to the increased growth of our contract transgenic sciences business, opportunities exist for motivated Research Associates seeking challenging and rewarding careers in our Princeton facility. Opportunities exist in Molecular Biology, Cell Culture and Animal Science.

Qualified candidates should have a BS in Biology with 5+ years of industry experience. Molecular Biology candidates must have extensive experience in gene cloning, gene manipulation and be proficient in all methods of gene expression analysis. Cell Culture candidates will be required to maintain embryonic fibroblasts, embryonic stem cells and execute a designed gene targeting protocol. Animal Science candidates should be familiar with the operation of a transgenic animal facility and the breeding and maintenance of transgenic animal lines. All candidates should be able to work independently and have excellent communication, organization and interpersonal skills.

DNX offers competitive salary, comprehensive benefits package and an excellent working environment. Please send curriculum vitae and references to: **Human Resources, DNX Corporation, 575 Route 28, Raritan, NJ 08869. EOE.**



Please visit us  
on the Web at:  
[www.dnxtrans.com](http://www.dnxtrans.com)

## Research Positions STRUCTURAL BIOLOGY

The Mount Sinai School of Medicine has several exciting research positions available with the Structural Biology Program.

### NMR Facility Manager

Mount  
Sinai

SM

The new Structural Biology Program at Mount Sinai School of Medicine, to be located at our newly-constructed state-of-the-art facilities, seeks an individual with a strong background in heteronuclear multidimensional NMR spectroscopy.

Responsible for the daily operation/maintenance of the NMR Facility, including a 600 MHz and a 500 MHz spectrometers. Additionally, there will be an opportunity to participate in ongoing research of protein structure and function. A Ph.D. in chemistry or biophysics is preferred.

### Postdoctoral Associates

Several postdoctoral positions are available for highly-motivated individuals to study the structural biology of proteins involved in signal transduction and cell cycle regulation. Experience in protein chemistry, molecular biology or multidimensional NMR is required. Expertise in enzymology is a plus. The laboratory is equipped with state-of-the-art facilities for structural biology research focused on high-resolution NMR.

Send curriculum vitae, statement of research interest and names of three references to: **Ming-Ming Zhou, Ph.D., c/o: Ms. Maureen Milici, Department of Physiology and Biophysics, Mount Sinai School of Medicine, Box 1218, One Gustave L. Levy Place, New York, NY 10029-6574, fax: 212-860-3359, e-mail: mmz@helix.pprod.abbott.com. An Equal Opportunity Employer.**

**The Mount Sinai Medical Center**

## New York University

### DENTAL SCIENTISTS

New York University College of Dentistry is seeking to recruit dentists to tenure-track positions who have both research and clinical training. Specifically, we are interested in appointing dentists who have acquired a Ph.D. in one of the biomedical sciences including, but not limited to, Biochemistry, Cell Biology, Experimental Pathology, Immunology, Microbiology, Molecular Biology, Oral Biology, Pharmacology, Physiology, etc. A Ph.D. in one of the Material Sciences is also acceptable. Furthermore, the ideal candidate will have acquired additional research training as a postdoctoral fellow.

In addition, applicants should have advanced training in one of the following dental disciplines: Endodontics, Geriatric Dentistry, Oral Medicine/Oral Pathology, Oral Surgery, Orthodontics, Pediatric Dentistry, Periodontics, Prosthodontics, or Public Health Dentistry.

New York University College of Dentistry expects to appoint up to five D.D.S.-Ph.D.'s to these newly created positions. Successful applicants are expected to establish an extramural funded productive research program and support the teaching programs of the College.

Please send a letter of interest and curriculum vitae to: **Barry R. Rifkin, DDS, Ph.D., David B. Kriser Dental Center, New York University College of Dentistry, 345 East 24th Street, New York, NY 10010.**

NYU encourages applications from women and members of minority groups.

## MOLECULAR BIOLOGISTS

The National Renewable Energy Laboratory (NREL) in Golden, just west of Denver, is the nation's primary federal laboratory for research, development and deployment of renewable energy and energy efficiency technologies.

The Strain Development Team in the Biotechnology Center for Fuels and Chemicals at NREL has several key, immediate openings for experienced microbial researchers skilled in classical and modern genetic techniques. You will be joining a dynamic team of scientists working to metabolically engineer and characterize a variety of fermentative microorganisms to over produce ethanol.

A strong background in biochemistry, biochemical engineering, microbial physiology, and/or molecular biology is required of the successful candidates. Familiarity with biochemical pathways and enzymology is an asset.

Associate Microbial Geneticist Req#E4200-632, requires a Bachelor's degree with 1-2 years experience in genetic engineering of microorganisms.

Staff Molecular Biologist Req#E4200-631, requires an advanced degree (recent Ph.D. preferred). Familiarity with pathway engineering and/or microbial biochemistry is required.

Several postdoctoral positions are also anticipated for researchers experienced in *Lactobacillus* genetics.

Our innovative research for cleaner, safer, and renewable energy sources is carried out in state-of-the-art laboratories.

For prompt consideration, please send your resume to: NREL, Human Resources Office, Req. #\_\_\_\_\_, 1617 Cole Blvd., Golden, CO 80401. NREL is an equal opportunity employer and proud of its commitment to diversity. Women and minorities are encouraged to apply.



## DRUG DISCOVERY

### Director of Pharmacokinetics/ Drug Metabolism

In this newly created position, you will play a lead role in discovering synthetic small molecule therapeutics for the treatment of medically important diseases. Requirements include a Ph.D., significant managerial and pharmaceutical experience, and a demonstrated record of scientific achievement. Before submitting a resume, please call 800/621-0537 (24 hours) for important additional information. Position 3022.

**Arris**  
Pharmaceutical  
San Francisco

EOE

TDD: 310-986-4752

**Ecosystem Ecology — Limnology  
University of Minnesota, Twin Cities**

The Department of Ecology, Evolution, and Behavior is searching for two new faculty at the Assistant or Associate Professor level as part of the first phase of a series of hirings. Successful candidates will be expected to establish vigorous, extramurally funded research programs, train graduate students, and teach undergraduate and graduate courses in their areas of expertise. A Ph.D. or its equivalent in a relevant biological discipline is required and post-doctoral experience is desired. Application review will begin on December 1, 1996. Closing date is January 22, 1997. Send a CV, statement of teaching and research interests, copies of up to three reprints, and have three letters of reference sent to **Chair, [Appropriate] Search Committee, Department of Ecology, Evolution, and Behavior, University of Minnesota, 1987 Upper Buford Circle, St. Paul, MN 55108**. See <http://biosci.cbs.umn.edu/eeb/jobs/> for more information. The two positions are:

**Ecosystem/Community Ecology** — All those working in this area are encouraged to apply, but we are particularly interested in those pursuing rigorous field work in terrestrial habitats, especially work that links ecosystem processes such as nutrient or carbon dynamics with community dynamics or that addresses regional or global biogeochemical issues.

**Moos Chair in Limnology** — All those working in this area are encouraged to apply, but we are particularly interested in candidates with general interests in inland aquatic systems and expertise in algal ecology, microbial ecology, biogeochemistry, or other areas that complement existing programs at the University of Minnesota. This endowed chair will be filled at the Assistant or Associate Professor level.

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

**The University of Medicine and Dentistry of  
New Jersey-New Jersey Dental School, Dental Research  
Center welcomes applications for the following Tenure  
Track Research positions:**

**ASSOCIATE PROFESSOR LEVEL**

The position requires a person who has an independently funded program. Applicants who work in the area of microbiology and immunology will be considered. Preference will be given to applicants who have demonstrated expertise in microbial pathogenesis at the molecular level and have shown success as an independent investigator. This position represents an outstanding academic research opportunity for a mid-career/or outstanding less senior investigator.

**ASSISTANT PROFESSOR LEVEL (2)**

Researchers who work in the area of microbiology and immunology will be considered. Preference will be given to applicants who have demonstrated expertise in the techniques of microbiology and molecular biology and have shown success as an independent investigator. These positions represent outstanding academic research opportunities for junior or mid-career investigators.

Periodontal disease(s) is a ubiquitous disease that effects over 60% of the population. This group of diseases results from an infection that is caused by bacteria that colonize the teeth, co-aggregate with other oral bacteria, eventually dominate their habitat and overcome the local host defense system. The focus of the Dental Research Center will be in the area of bacterial-bacterial, host-bacterial interactions employing methods in modern molecular biology to study the pathogenesis of periodontal diseases. We wish to develop a program that create and implements novel approaches to the study of these areas.

Applicants must have a Ph.D., a minimum of two years of relevant post-doctoral experience and training or an interest in pursuing the area of molecular pathogenesis. Salary, fringe benefits, and start-up packages are more than competitive, and are commensurate with qualifications and experience. Starting time for the Assistant Professor positions are flexible to accommodate applicants. To apply send curriculum vitae, indicating position of interest; reprints; statements of research and teaching interest; and names and addresses, telephone and FAX numbers, and E-mail addresses of three persons who may be contacted as references to **Dr. D. Fine, Director, Dental Research Center, University of Medicine and**

**Dentistry of New Jersey(UMDNJ), NJDS, The Dental Research Center, Room C-813, 110 Bergen Street, Newark, NJ 07103 or e-mail to [finedh@umdnj.edu](mailto:finedh@umdnj.edu).**  
UMDNJ is an Equal Opportunity Employer and operates under an Affirmative Action Policy. The University strongly encourages all qualified applicants.



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Katholieke Universiteit Nijmegen

Faculty of  
Science

The Faculty of Science at the University of Nijmegen, The Netherlands, includes the departments of Physics, Chemistry, Biology and Environmental Chemistry.

In the Chemistry Department there is currently a position available for a

## *professor of solid state chemistry (full time position)*

Major research areas of the faculty are fundamental Materials Research, carried out in the Research Institute for Materials (RIM), and Molecular Structure, Design and Synthesis, which is the scientific mission of the Nijmegen SON Research Center (NSR Center). The position available is within the RIM. Therefore the research program of the candidate should meet the scientific objectives of this institute, in particular with respect to the study of complex materials from a chemical point of view. This includes the experimental study and theoretical modeling of crystal stability and morphology, and of crystal growth processes taking place at solid-gas and solid-liquid interfaces. The candidate should collaborate with other groups in the RIM and/or NSR Center, and contribute to the international scientific standing of these institutes by carrying out high quality research. He/she must be able to obtain also external funding to support the proposed research.

The candidate will also be asked to participate in the teaching program for undergraduate and graduate students in the area of physical chemistry, and particularly in solid state chemistry.

For this position we are looking for a chemist or physicist with: broad knowledge of physical chemistry with emphasis on solid state chemistry

- the ability to be an inspiring leader of the experimental research program of the existing group
- the capability to provide theoretical support of this research
- the ability to maintain and extend national and international scientific contacts
- broad experience in carrying out high-level scientific research
- excellent teaching qualifications
- experience in obtaining outside financial support

It is expected that the candidate will take part in administrative and organizational duties within and outside the department.

The Faculty is making an effort to increase the number of women in academic positions. Hence, women are strongly encouraged to apply.

Additional information about this position can be provided by the chairman of the search committee, prof. dr. A. Van der Avoird, telephone (024) 365 30 37, e-mail: avda@theochem.kun.nl.

A written application with curriculum vitae and list of publications should be addressed within two weeks to the Faculty of Science, Personnel Department, Toernooiveld 1, 6525 ED Nijmegen, the Netherlands, quoting reference number 96-211.

### THE UNIVERSITY OF LEEDS DEPARTMENT OF PHYSIOLOGY RESEARCH FELLOW IN CELLULAR CARDIOLOGY

This postdoctoral position, funded by the British Heart Foundation, is available immediately for a fixed period of five years. The appointee will study ionic currents with the whole cell patch clamp technique in cells from different regions of the sinoatrial node and will join a team of other electrophysiologists, anatomists, and computer modellers in the UK and Japan to map the mammalian sinoatrial node.

Applicants should have a PhD in an appropriate biological science and relevant electrophysiological research experience.

Salary will be on the scale for Research Staff Grade IA within the range £14,317 - £17,466 p.a. (under review) according to qualifications and relevant experience.

Application forms and further particulars may be obtained from **Professor M.R. Boyett, Department of Physiology, University of Leeds, Leeds, LS2 9JT, tel +44 (0) 113 233 4298, fax +44 (0) 113 233 4224, email m.r.boyett@leeds.ac.uk**. Informal enquiries about the post may also be directed to Professor Boyett.

In all enquiries please quote the reference number 104/49

Closing date for applications is 6 December 1996

*The University of Leeds promotes an Equal Opportunities Policy.*



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écoles  
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Swiss Federal  
Institutes of  
Technology  
FIT

The **Swiss Federal Research Institute for Forest, Snow and Landscape (WSL)** is a research institute within the domain of the Swiss Federal Institutes of Technology (FIT). It comprises a core institution at Birmensdorf, Canton of Zurich, and the Swiss Institute for Snow and Avalanche Research (SLF) at Davos, Canton of Grisons. The WSL has a vacancy, as of 1 January 1997 or by arrangement, for the post of

## DIRECTOR.

The WSL is a national, multidisciplinary research institute of the Swiss Confederation and has a staff of some 350. Like the Federal Institutes of Technology, it is accountable to the Board of the Federal Institutes of Technology. Its research remit currently encompasses forestry sciences, ecology and, broadly speaking, research into landscape, snow and avalanches. It has a highly efficient technical infrastructure and its staff participate in the teaching activities of several institutions of higher education in Switzerland. The WSL also provides a wide range of services for public and private-sector clients and maintains close contacts with similar scientific institutions in Switzerland and abroad.

As head of the WSL the successful candidate will assume a wide range of scientific, technical and administrative responsibilities. A teaching post at the Federal Institute of Technology in Zurich or Lausanne will be considered.

This very demanding position calls for a mature personality with management experience in the advanced education sector or in industry. Candidates will have a university degree or equivalent qualification, a proven track record in research (e.g. in the fields of ecology, natural hazards, the life, environmental, forestry and engineering sciences, or economics), and a good knowledge of German, French and English.

Applications bearing the reference "Vermerk: WSL-D" should be submitted by November 15, 1996 to the *Delegierte des ETH-Rates, ETH Zentrum, CH-8092 Zurich*.



## POSITIONS OPEN

### WASHINGTON UNIVERSITY SCHOOL OF MEDICINE Department of Medicine and Molecular Biochemistry and Biophysics

**POSTDOCTORAL** position for Ph.D. or M.D./Ph.D. candidates is available to study mechanisms of tissue remodeling and extracellular proteolysis by secreted and cell membrane Zn Metalloproteases. The research in our laboratory is focused on mechanistic and structural studies of biological function, activation and spatial regulation of activity of Matrix Metalloproteases (MMPs) family and their inhibitors.

Please send a description of research interest and experience, curriculum vitae, and names of three references to:

**Professor Gregory Goldberg**  
Washington University  
School of Medicine  
Box 8123, 660 South Euclid Avenue  
St. Louis, MO 63110

### POSTDOCTORAL POSITION UCLA School of Medicine

Position available immediately for two areas of study: a) structure and function of hematopoietic receptors, or b) radiation signal transduction. Experience in molecular biology, protein biochemistry, and signal transduction required. Send curriculum vitae, statement of research interests, and names of three references to: **Dr. Maribeth Raines, Department of Radiation Oncology, UCLA School of Medicine, 10833 LeConte Avenue, Box 951714, Los Angeles, CA 90095-1714.**

*Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITION(S)** available immediately to study the pathogenesis of Alzheimer's disease using molecular, cellular, and transgenic animal systems. Minimum requirements: Ph.D. with experience in molecular and/or neurobiology or in protein chemistry; prefer ES cell experience. Send curriculum vitae and names of three references to: **Ken Fukuchi, M.D., Ph.D., Department of Comparative Medicine, University of Alabama at Birmingham, VH 419A, 1670 University Boulevard, Birmingham, AL 35294-0019. FAX: 205-975-5519.**

*The University of Alabama at Birmingham is an Equal Employment Opportunity Employer.*

### POSTDOCTORAL POSITION

The Mount Sinai Medical Center, a world-renowned leader in patient care, research, and medical education, has an opportunity available immediately to study the role of lymphocyte adhesion and migration in HIV activation and replication. Cell or molecular biology experience is preferred. Please send curriculum vitae and the names of three references to: **Dr. Lynn Schnapp, Mount Sinai Medical Center, Box 1232, One Gustave L. Levy Place, New York, NY 10029-6574. FAX: 212-831-3560. An Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available immediately to study the relationship between protein:RNA recognition and catalysis in a well-defined system using biochemistry, molecular genetics, and structural biology (see *EMBO J.*, 14:4143, 1995; *Biochemistry*, 35:6559, 1996; and <http://salus.med.uvm.edu/biochem/>). Strong background in enzymology desirable. Send curriculum vitae and names of three references to: **Dr. Christopher Francklyn, Department of Biochemistry, University of Vermont College of Medicine, Burlington, VT 05405. FAX: 802-862-8229; Email: franck@cmba.uvm.edu.**

### POSTDOCTORAL POSITION

This position is now available to study a pool of ATP, contained within the cytoskeletal/membrane complex of red blood cells, that is used directly to fuel the pumped transport of Na, K, and Ca. Send curriculum vitae and three references prior to December 15, 1996 to: **Joseph F. Hoffman, Department of Cellular and Molecular Physiology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06520.**

**A POSTDOCTORAL POSITION** in Food Science/Organic Chemistry is available to study chemical conversions of the mycotoxin fumonisin B<sub>1</sub>, a putative environmental tumor promoter, during thermal processing of corn-derived foods. Studies will include semi-synthesis of plausible standards, radiotracer work, and development of HPLC assays. Send curriculum vitae and names of three references to: **Dr. W. T. Shier, College of Pharmacy, University of Minnesota, Minneapolis, MN 55455.**

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available immediately to study neuron-oligodendrocyte cell-cell interactions and signal transduction *in vitro*, with emphasis on MAG interactions with neuronal cell surface targets. Send curriculum vitae and names and telephone numbers of references to: **Dr. R. L. Schnaar, Johns Hopkins School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. Email: rschnaar@welchlink.welch.jhu.edu.**

## CORTICAL CIRCUITS

**POSTDOCTORAL POSITION** available immediately to join ongoing research program investigating cortical neuronal networks in the rodent somatosensory system. Single-unit, multiple microelectrode recordings and cross-correlation techniques, combined with computer simulations, will be used to examine the organization of thalamocortical and corticocortical circuitry in the whisker/barrel cortex *in vivo*. Electrophysiological experience required. Strong background in quantitative data analysis and/or mathematical modeling highly desirable. Please send curriculum vitae, names of references, and statement of research experience to: **Dr. Daniel J. Simons, Department of Neurobiology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261. Email: cortex@vms.cis.pitt.edu.**

## MEETINGS

### American Society of Tropical Medicine and Hygiene 45th Annual Meeting Baltimore, Maryland December 1 to 5, 1996

Over 600 abstracts spanning basic/clinical research in tropical medicine

#### Symposia include:

Cyclospora; Host and Parasite: Tales of Evasion;  
Vaccines Against Tropical Diseases;  
Late Breakers in Molecular Biology;  
Parasite Immunology and Knockout Mice;  
T Cell Mediated Pathology;  
Molecular Biology of Parasites;  
Parasite Genomes, From Sequence to Biology;  
Travel Medicine Problems in the Caribbean;  
Nucleic Acid Vaccines for Human Viral Pathogens;  
Cryptosporidium and Cryptosporidiosis;  
Measles: The Neglected Tropical Killer;  
Remote Sensing the Patterns of Tropical Disease;  
Dengue Prevention Programs

Program and Abstracts were published in the August 1996 supplement of the *American Journal of Tropical Medicine and Hygiene*, and are also available on the American Society of Tropical Medicine and Hygiene (ASTMH) Homepage: <http://members.aol.com/astmhweb/>. Or call the ASTMH at Telephone: 847-480-9592; FAX: 847-480-9282 for more information.

### THE 13TH INTERNATIONAL CONGRESS OF DEVELOPMENTAL BIOLOGY July 5 to 10, 1997, Snowbird, Utah, U.S.A.

Jointly sponsored by The International Society for Developmental Biologists (ISDB) and the Society for Developmental Biology (SDB). For more information: **Society for Developmental Biology, 9650 Rockville Pike, Bethesda, MD 20814-3998, U.S.A. FAX: 301-530-7049.** You may register your interest via SDB Web Page: <http://sdb.bio.purdue.edu/>.

## COURSES AND TRAINING

University of Michigan's Interdisciplinary graduate program in **Cellular and Molecular Biology** offers flexible individualized training toward the Ph.D. with research opportunities in labs of over 70 faculty in 14 departments at the University and Medical School. Competitive stipend, tuition, and insurance available to U.S. citizens and permanent residents. Contact: **CMB, University of Michigan, Ann Arbor, MI 48109-0607. Email: gradcmb@umich.edu; website <http://www.med.umich.edu/cmb/>.**

## POSITIONS OPEN

**POSTDOCTORAL FELLOWSHIPS:** two NIH-funded positions within program project on asthma available immediately to study the molecular regulation of cytokine production by eosinophils. Applicants should have a strong background in cell and molecular biology. Please forward a curriculum vitae, three references, and statement of past research accomplishments to: **Dr. James Malter, Department of Pathology, A4/204, University of Wisconsin Hospital, 600 Highland Avenue, Madison, WI 53792.**

**POSTDOCTORAL POSITION:** Available January 1, 1997. Cell cycle regulation of microtubule assembly and interaction of the p34cdc2kinase with MAPs. Ph.D. in biochemistry or related field and experience in protein chemistry required. Applications will be reviewed until the position is filled. Send curriculum vitae and three reference letters to: **Dr. Kathy Suprenant, Department of Physiology and Cell Biology, University of Kansas, Lawrence, KS 66045. Email: ksupre@kuhub.cc.ukans.edu. Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL FELLOWSHIPS AT HARVARD MEDICAL SCHOOL/Brigham and Women's Hospital** available to study the cellular and molecular mechanisms of autoimmune tissue injury. Experience in immunology and/or molecular biology required. Send résumé and three references to: **Dr. Vicki Rubin Kelley, Department of Medicine, Brigham and Women's Hospital, Boston, MA 02115. FAX: 617-732-6392; Email: vicki@bustoff.bwh.harvard.edu. Harvard Medical School/Brigham and Women's Hospital are Equal Opportunity Employers.**

Two **POSTDOCTORAL POSITIONS** are available to study structure, function, regulation of the p21-activated protein kinase PAK I by site-directed mutagenesis, and the molecular events involved in regulation of cytoskeleton (JBC, 271:21498, 1996). Background in signal transduction, cell cycle, and/or molecular biology is preferred. Send curriculum vitae and references to: **Dr. Jolinda Traugh, Department of Biochemistry, University of California, Riverside, CA 92521. FAX: 909-787-3590; Email: traugh@mail.ucr.edu.**

## U.S. POSTAL SERVICE

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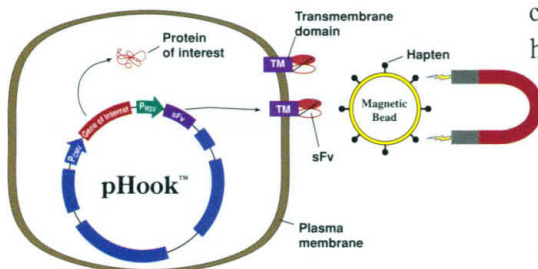
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