

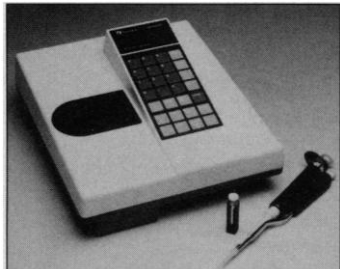
## Monoclonal Antibodies

Monoclonal antibodies (MAbs) are available to gonadotropin-releasing hormone, angiotensin-converting enzyme, digoxin, and amitriptyline. Immunopharmaceutics. Circle 88.

A new range of MAbs to bovine CD antigens includes anti-bovine CD1, CD2, CD4, CD5, CD8, and CD45. They are for use in flow cytometry and immunohistology. The HISTOTEC range of CD antibodies is for use in immunohistology techniques. Sero-tec. Circle 89.

## RNA and DNA Calculator

GeneQuant RNA and DNA calculator is a quantitation tool that provides instantaneous results to help monitor the progress of essential steps in mapping, cloning, and sequencing. GeneQuant



makes use of diode-array detector technology for rapid multi-wavelength measurement. The instrument requires only a few microliters of sample and features a novel disposable sample cell that offers contamination-free sample recovery. The system also accommodates standard ultraviolet cells if sufficient sample volume is available. Pharmacia LKB Biotechnology. Circle 90.

## Inverted Confocal Microscope

The LSM 410 inverted confocal microscope allows the user to record and display three different fluorescence signals simultaneously with full resolution. The system includes a transmitted

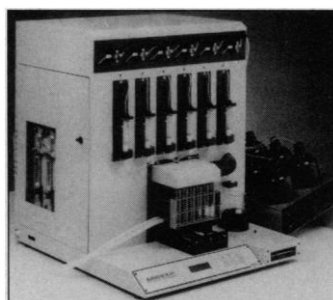
light laser scan detector and can accommodate up to three separate fluorescence detectors and three lasers. The LSM 410 incorporates the new Axiovert 100 series of inverted research microscopes which provide exceptionally high light throughput for critical fluorescence imaging. The large unobstructed stage area is ideal for specimen handling with micromanipulators and microinjection systems. Carl Zeiss. Circle 91.

## Capillary Electrophoresis/Mass Spectrometry

The P/ACE 2100 System combines capillary electrophoresis with mass spectrometry (CE/MS) for a powerful tool for the analysis of pharmaceuticals, carbohydrates, proteins, peptides, and nucleic acids. Analyses with the P/ACE 2100 provide high-resolution separations rapidly from only a few nanoliters of sample. With MS as a detector, high-resolution separations are coupled with accurate molecular weight determinations, molecule identification, and high sensitivity. The combination is suited for analysis of complex matrices because CE's resolving power yields sharp peaks, which allows greater accuracy in MS analysis. Beckman Instruments. Circle 92.

## Automated Water Analysis

The AutoTrace SPE (solid phase extraction) Workstation automates the SPE of trace contaminants from water. Featuring precision syringes, pumps, and menu-driven software, the AutoTrace processes up to six water samples simultaneously. Sample volumes can range from as low as 10 ml to as high as 2 liters. Five reagents can be used for conditioning and



elution steps. The AutoTrace features 1-, 3-, 6-, or 8-ml syringe barrel SPE cartridges that can be dried with an inert gas. Zymark Corp. Circle 93.

## Scientific Graphics Software

GRAPHER for Windows is a two-dimensional scientific graphics package. This version of a popular DOS program supports up to 32,000 data points per curve and includes a sophisticated new worksheet that automatically computes statistics, sorts data, and performs mathematical transformations between worksheet columns. Graph types include line, symbol, bar, and open-high-low-close graphs with any combination of linear, logarithmic, and probability axes. Golden Software. Circle 94.

## Binding Matrix for Plasmid DNA Isolation

Finebind is a new binding matrix that provides a rapid method for the isolation of plasmid DNA from bacterial cultures. The method takes just 50 min from overnight culture and produces 5 to 10 mg of high-quality DNA that can be used directly in restriction digests, sequencing, and transformations. Other applications include removal of unincorporated nucleotides following DNA labeling reactions, desalting and buffer

exchange, and isolation of DNA from agarose. Amersham International. Circle 95.

## Literature

*Spectrophotometer Cells and Accessories* is a guide to a line of optical-Pyrex and quartz-glass spectrophotometer cuvettes: Spectro-cell. Circle 96.

*The Definitive Temperature and Humidity Recorder: Model ST-100S* describes an instrument that features electronic sensors, long-term continuous recording, digital indicator, remote recording, and wall-mount. Sekonic Co. Circle 97.

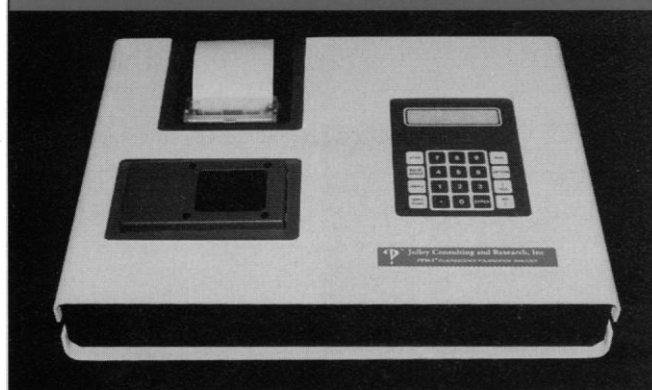
*bioSolutions: Application and Product News for Lab Researchers* is a new 12-page publication for researchers that discusses application of Amicon's membrane filtration products for the lab. The first issue features an article on concentration of nanogram quantities of DNA. Ultrafiltration with the manufacturer's devices delivers almost 100% recovery of DNA samples with concentrations as low as 10 ng/ml and takes only 10 min. Amicon. Circle 98.

XSI X-Ray and Specialty Instruments Product Line features four products: BrightCam, a two-dimensional image intensifier/converter; BrightView, a vacuum-compatible, image intensifier/converter with direct 35- $\mu$ m spatial resolution; VIA, a real-time digital imaging system for image acquisition, archiving, transfer, and analysis; and XUV-007, a rugged seven-channel x-ray diode. X-ray and Specialty Instruments. Circle 99.

*A Major Innovation in Fume Capture Technology* is a brochure describing the SC-1, a quiet system that removes gases, fumes, aerosols, and particulates generated in the laboratory and other circumstances. PURIFIED microENVIRONMENTS, division of Germ-free Labs. Circle 100.

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- ◆ Computational biology - *structural foundations*

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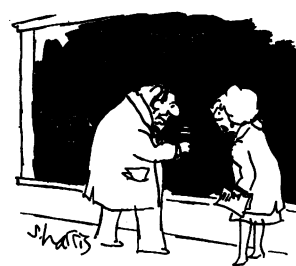
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If you are presently in the job market, a student anticipating graduation in 1993, or if you are an employer with positions to be filled, and wish to take advantage of our efforts on your behalf there's still time to enroll.

### **AAAS★93 Annual Meeting**

#### **HYNES CONVENTION CENTER, BALLROOM B**

#### **BOSTON — FEBRUARY 11-15, 1993**

##### **HOURS OF OPERATION**

###### **11 February 1993, Thursday**

12:00 PM - 5:00 PM .....Employer Registration and Interview Scheduling  
2:00 PM - 7:00 PM .....Candidate Registration

###### **12 February 1993, Friday**

8:00 AM - 5:00 PM .....Registration and Interview Scheduling  
9:00 AM - 4:30 PM .....Interviews  
9:00 AM - 10:15 AM .....Seminar: Interview/Presentation Skills  
10:30 AM - 12:00 PM .....Seminar: Resume Writing  
1:00 PM - 2:15 PM .....Seminar: Interview/Presentation Skills  
2:30 PM - 4:00 PM .....Seminar: Resume Writing

###### **13 February 1993, Saturday**

8:00 AM - 6:00 PM .....Registration and Interview Scheduling  
9:00 AM - 5:30 PM .....Interviews  
9:00 AM - 10:15 AM .....Seminar: Interview/Presentation Skills  
10:30 AM - 12:00 PM .....Seminar: Resume Writing

###### **14 February 1993, Sunday**

8:00 AM - 6:00 PM .....Registration and Interview Scheduling  
9:00 AM - 5:30 PM .....Interviews

###### **15 February 1993, Monday**

9:00 AM - 1:00 PM .....Interviews

**Contact: Jacquelyn Roberts, AAAS Employment Exchange, 1333 H Street, NW, Washington, DC 20005;  
Phone: 202-326-6737 before January 20, 1993. OR, you may enroll on-site at the meeting in Boston.**

# SCIENCE

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## POSITIONS OPEN

### UNIVERSITY OF COLORADO SCHOOL OF MEDICINE

The Department of Cellular and Structural Biology seeks to strengthen its programs in DEVELOPMENTAL BIOLOGY, CHEMICAL SENSES, CELL BIOLOGY by filling at least two tenure-track faculty positions. Successful candidates have an M.D. or Ph.D. degree, significant postdoctoral experience, and the ability to develop a strong, independent research program. Preferred research areas are the cellular and molecular aspects of vertebrate or invertebrate development, the cellular and molecular aspects of chemical senses, including taste and smell, or fundamental problems in cell biology. Candidates are expected to teach in the Department's instructional programs and may be appointed at the ASSISTANT PROFESSOR or higher levels.

The Department of Cellular and Structural Biology and the Health Sciences Center offer a rich, congenial, interactive research environment, strong interdepartmental graduate programs, and excellent facilities. Applications will be reviewed starting February 15, 1993. Send curriculum vitae, publication list, a one-page statement of current and future research goals, and the names of three references to: Dr. Joan Hooper, Chair, Search Committee, Department of Cellular and Structural Biology, UCHSC, 4200 East Ninth Avenue, B-111, Denver, CO 80262.

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

**DEVELOPMENTAL BIOLOGIST.** The Department of Biological Science of Florida State University invites applications for a tenure-track faculty position in Developmental biology at the level of ASSISTANT PROFESSOR, although outstanding senior level applications will be considered. The selected candidate will be expected to develop a vigorous, independent research program applying modern molecular methods to research in developmental biology, and to teach human development to medical students. Opportunities exist for interaction with ongoing programs in cell and molecular biology, structural biology, and neuroscience, and participation in associated graduate programs. Submit curriculum vitae, a concise description of research interest, and the names, addresses, and telephone numbers of three references to: Dr. Laura R. Keller, Developmental Biology Search Committee, Program in Medical Sciences, 34 Montgomery R-115, Florida State University, Tallahassee, FL 32306-4051. Review of applications will begin February 15, 1993.

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

### TWO TENURE-TRACK ASSISTANT PROFESSOR POSITIONS IN DEVELOPMENTAL NEUROSCIENCE

Department of Anatomy  
 University of Utah School of Medicine

Applicants must have a Ph.D., M.D., or equivalent degree, postdoctoral research experience, and the ability to develop a strong independent research program. Applicants with demonstrated research expertise in any aspect of nervous system development will be considered. A strong commitment to teaching medical and graduate students is also required; prior teaching experience in a medical school basic science curriculum is preferred. These positions will not require teaching of human (gross) anatomy. Applicants should send curriculum vitae (including a bibliography and list of grant support), a statement of research interests, and the names and addresses of three references.

Send applications to: T. N. Parks, Chair, Department of Anatomy, University of Utah School of Medicine, Salt Lake City, UT 84132. Deadline for applications and nominations is February 1, 1993 or until suitable candidates are identified. *The University of Utah is an Affirmative Action/Equal Opportunity Employer.*

**ASSISTANT PROFESSOR.** Small, church-related, liberal arts college seeks broadly trained biologist to teach courses in plant biology, cell/molecular biology, microbiology and general biology; will direct students in undergraduate research program. Excellent lab facilities. Send curriculum vitae, transcripts and three reference letters to: Dr. Dale Goldsmith, Vice President for Academic Services, McPherson College, McPherson, KS 67460. Telephone: (316) 241-0731. Deadline is January 15, 1993, to assure full consideration. *McPherson College is an Equal Opportunity/Affirmative Action Employer by choice.*

## POSITIONS OPEN

**ASSISTANT OR ASSOCIATE PROFESSOR OF TOXICOLOGY.** The Department of Pharmacology, Toxicology and Therapeutics at the University of Kansas Medical Center invites applications for a tenure-track position for a toxicologist. The applicants must have an appropriate Ph.D. or an M.D. with two years or more of relevant postdoctoral experience. The successful candidate will be expected to establish an independent research program and contribute to the teaching of graduate and medical students. Primary appointment will be in this Department, but additional affiliation with the Center for Environmental and Occupational Health, Cancer, or Mental Retardation Research Center is possible. Applicants should send curriculum vitae and the names of three references to: Dr. Curtis D. Klaassen or Dr. Sam J. Enna, Department of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Center, Kansas City, KS 66160-7417. *The University of Kansas is an Affirmative Action/Equal Opportunity Employer.*

### FACULTY POSITIONS IN CLINICAL PHARMACOLOGY MEHARRY MEDICAL COLLEGE

The School of Medicine at Meharry Medical College is seeking applicants for tenure-track faculty positions in clinical pharmacology, at the ASSISTANT or ASSOCIATE PROFESSOR level. Salary and academic rank will be commensurate with qualifications and experience.

Candidate should have M.D., Ph.D., M.D./Ph.D., or Pharm.D. degree with training/experience in clinical pharmacology. Clinician in any discipline is eligible to apply.

Successful candidates will be expected to develop an independent research program in a basic or clinical area and participate in a clinical pharmacology training program. Start-up funds, generous space, benefits and collaborative opportunities are available.

The deadline for application is March 15, 1993. Interested candidates should have introductory letter, curriculum vitae and three reference letters sent to: The Search Committee, c/o Timi Edeki, M.D., Ph.D., Department of Pharmacology, Meharry Medical College, 1005 D.B. Todd Boulevard, Nashville, TN 37209, Telephone: 615-327-6510.

### RESEARCH ASSISTANT PROFESSOR

Position immediately available for experienced cellular and molecular biologist to serve as Laboratory Director of a Cell Biology/Histopathology Core Library which supports the research of a group of investigators involved in studies of lung development, gene expression, and of organ repair processes following injury. This position will involve the technical direction of a laboratory facility serving 3 to 4 investigators in addition to the Laboratory Director. It will also involve serving as a collaborator or consultant for research projects ongoing in the laboratory. Up to 50% of the position will be protected for the Laboratory Director's own research, for which extramural support will be expected after an appropriate start-up term. Applicant must have established skills in tissue/cell culture, DNA/RNA analysis/cloning, DNA manipulation, and RNA quantitation, transfection. The Laboratory Director will have a faculty position in the Department of Pediatrics and will have the opportunity to interact with investigators from basic science departments including Biochemistry, Molecular Physiology and Biophysics, and Pathology. Please submit curriculum vitae and letters of reference to: Robert B. Cotton, M.D. or Thomas A. Hazinski, M.D., Department of Pediatrics, Vanderbilt University Medical Center, A-0126 M.C.N., Nashville, TN 37232-2370. *(Equal Opportunity Statement.)*

**CHEMIST.** Tenure-track ASSISTANT or ASSOCIATE PROFESSOR position available in the Department of Radiology, University of Pennsylvania. The successful applicant will be expected to join a strong research team in developing new imaging agents, specific emphasis will be conducting research in the development of new agents for *in vivo* magnetic resonance imaging and teaching at the graduate level. Candidates should have a Ph.D. in medicinal and/or organic chemistry, with working knowledge of MR imaging and pharmacology. Please send résumé to: Hank F. Kung, Ph.D., Department of Radiology, University of Pennsylvania, Room 305, 3700 Market Street, Philadelphia, PA 19104. *The University of Pennsylvania is an Equal Opportunity Employer.*

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## ONCOLOGY

- Study the role of gene regulation, transcription factors and cellular transformation. Requires a Ph.D. in Molecular or Cell Biology. **Please refer to position MH**
- Participate in the investigation of enzymes involved in signal transduction and cell proliferation in the field of oncology. Requires a Ph.D. in Biochemistry or Cell Biology with training in enzyme purification. **Please refer to position ND**

## BRONCHOPULMONARY RESEARCH

- Study the role of key cytokines (eg., IL-5, IL-8) in inflammatory diseases of the lung (eg., bronchial asthma). Requires a Ph.D. in Pharmacology or Immunology. **Please refer to position MW**
- Purify and study phospholipases involved in signal transduction mediated by IgE in mast cells and basophils. The successful candidate will be strong in protein biochemistry and have a Ph.D. in Biochemistry or Cell Biology. **Please refer to position JK**

- Characterize novel IgE receptor associated proteins and the role they play during signal transduction in mast cells and basophils. Requires a Ph.D. in Molecular Biology, Biochemistry or Immunology. **Please refer to position JK**

## DERMATOLOGY

- Study the action of retinoids on the repair of photodamaged skin. Requires a Ph.D. in Biochemistry; knowledge of the biochemistry and physiology of skin is desirable. **Please refer to position GB**

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- Requires a Ph.D. in Immunology with experience in human and murine T cell immunology. **Please refer to position ZN**

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## POSITIONS OPEN

### DEPARTMENT OF VETERANS AFFAIRS VETERANS HEALTH ADMINISTRATION DIRECTOR MEDICAL RESEARCH SERVICE

The Department of Veterans Affairs (VA) is seeking a qualified research administrator to serve as a Deputy for the Director of the Medical Research Service. The Medical Research Service, with a current annual budget of \$200 million, supports biomedical and behavioral sciences research of over 2500 VA scientists, 70% of whom are physicians. The Deputy will assume primary responsibility for managing the staff in Washington, D.C., and will assist the Director in policy development, scientific peer review, and budget formulation and distribution. The appointment will be for two years with the possibility for extension under the auspices of an Intergovernmental Personnel Act (IPA) appointment. An IPA provides that the selectee would remain as a faculty member at his/her current university and the VA would reimburse the university for the employee's salary and benefits. Candidates are expected to be recognized scientists and must have an established record of scholarly achievement as well as a strong administrative background. Relocation expenses are negotiable. *Equal Opportunity Employer.*

Qualified applicants are invited to send their curriculum vitae to: **Martin L. Albert, M.D., Director, Medical Research; c/o Neurology Department (127) Department of Veterans Affairs, 150 South Huntington Avenue, Boston, MA 02130.**

### CELL BIOLOGIST/MOLECULAR BIOLOGIST

The Institute of Chemical Toxicology (ICT), Wayne State University, is seeking to fill a tenure-track faculty position at the **ASSOCIATE/FULL PROFESSOR** level in the area of cell biology and/or eukaryotic molecular biology. Preference will be given to applicants interested in factors affecting cultured cell function, phenotypic characteristics, differentiation, regulation of gene expression, and also to those with experience in oncogenes, transcription factors, growth factors, retroviruses, and in the molecular/cellular effects of toxic substances and carcinogens (e.g., DNA repair). The ICT has 8 faculty actively engaged in research on regulation of gene expression, oncogene and tumor suppressor gene function, immunomodulation, immortalization and differentiated epithelial cell function, kinase-mediated signal transduction, cellular toxicity of metals and transgenic animals. The ICT has established a transgenic animal facility. The Institute of Chemical Toxicology offers a research-intensive environment and faculty are expected to develop independent, extramurally funded research programs. Excellent new laboratories, equipment, support facilities, and generous start-up funds are available. Candidates should have a Ph.D., M.D., or D.V.M. degree and a strong track record in research. Send curriculum vitae and a brief description of research interests to:

**Dr. Raymond F. Novak**  
Institute of Chemical Toxicology  
Wayne State University  
2727 Second Avenue, Room 4000  
Detroit, MI 48201

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### CELL BIOLOGY

**ASSISTANT PROFESSOR**, tenure-track starting fall 1993. Candidates must have Ph.D., be committed to teaching undergraduates and to developing a research program involving undergraduates. Consideration will be given to all applicants who use modern techniques to investigate basic problems in cell biology. Areas of interest not currently covered by our faculty include developmental genetics, plant cell biology, signal transduction, and cell cycle. Teaching duties will include lab/lecture courses in cell biology and introductory biology, and other courses related to area of specialty. Siena College is a four-year Liberal Arts college of 2800 students. The Biology Department consists of 12 full-time faculty and 340 majors. Send letter of application, statement of teaching interest, résumé, and three letters of recommendation by 15 February 1993 to: **Dr. John Hayden, Department of Biology, Siena College, Loudonville (Albany), NY 12211 (Telephone: 518-783-2915).** *Siena College is an Equal Opportunity Employer and encourages applications from all qualified candidates including women and minorities.*

## POSITIONS OPEN

**Multiscale Ecosystem Modeling and Ecotoxicology Coordinator: ASSISTANT/ASSOCIATE RESEARCH PROFESSOR**, University of Maryland (UM) Center for Environmental and Estuarine Studies. Full-time, non-tenure-track position to coordinate modeling and ecotoxicology activities within the **MULTISCALE EXPERIMENTAL ECOSYSTEM RESEARCH CENTER (MEERC)**, an EPA center for exploratory research. Ph.D. in an environmental science field and some combination of experience in ecosystem modeling, ecotoxicology, statistics, GIS, micro and/or mesocosms, and experimental design. Ability to work in a large, interdisciplinary team essential. Applicants reviewed beginning February 15, 1993 but position open until suitable candidate found. **Résumé, 3 references to: Dr. Robert Costanza, Associate Director, MEERC, CEES, P.O. Box 38, Solomons, MD 20688.** *UM is an Affirmative Action/Equal Opportunity Employer.*

### FACULTY POSITIONS OREGON HEALTH SCIENCES UNIVERSITY

The Oregon Health Sciences University is building additional facilities and is seeking new faculty for an expanding program in basic science research. Over the next 12 to 18 months several new faculty will be added in concert with the completion of a new building. Depending on rank, individuals will be expected to develop or transfer active research programs, be willing to participate in teaching, and to interact with other faculty in a vigorous research environment. Space, start-up funds and salaries are competitive.

#### Department of Microbiology & Immunology SENIOR IMMUNOLOGIST

The Department of Microbiology and Immunology has been newly reorganized and staffed to emphasize the molecular basis of microbial pathogenesis and immunity. This active and expanding department is now recruiting a **FULL or ASSOCIATE PROFESSOR** with an outstanding record in the field of immunology. Special consideration will be given to individuals studying the molecular aspects of antigen processing and presentation. The applicant must have a record of substantial accomplishment as demonstrated by publications in major scientific journals and a history of continuous grant support from national agencies. Interested persons should send curriculum vitae, statement of research interest and names of three references to: **M.B. Rittenberg, Search Committee, Department of Microbiology & Immunology, Oregon Health Sciences University, Portland, OR 97201.**

### UNIVERSITY OF THE VIRGIN ISLANDS (UVI) ST. THOMAS

Candidates are invited to apply for the position of **VISITING ASSISTANT or ASSOCIATE PROFESSOR** of biology. A Ph.D. in Biology with emphasis on vertebrate physiology required. Must indicate genuine interest in teaching and research. The successful appointee will be responsible for teaching the following major courses: anatomy and physiology for nurses and natural resources for non-science majors. The appointee should be able to teach animal physiology and other vertebrate courses for majors, and will be encouraged to develop elective courses in area of interest. Development of a strong research program and active participation in UVI's federally funded programs for undergraduates are expected. The salary for this faculty position ranges from \$30,679 to \$50,708 for the academic year depending upon qualifications and experience. Applications accepted until March 15, 1993, and start date of appointee will begin August 15, 1993. A letter of application, up-to-date résumé, official college transcripts, and three letters of recommendation should be addressed to: **Dr. Denis Paul, Vice President for Academic Affairs, University of the Virgin Islands, No. 2. John Brewers Bay, Charlotte Amalie, VI 00802-9990.**

*The University of the Virgin Islands is an Affirmative Action/Equal Opportunity, Title IX, Section 504 Employer and Educator.*

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## POSITIONS OPEN

### THEORETICAL ECOLOGIST

Department of Ecology and Evolutionary Biology  
University of Connecticut

The Department of Ecology and Evolutionary Biology in conjunction with the Center for Conservation and Biodiversity at the University of Connecticut seeks a Theoretical Ecologist for an anticipated tenure-track position at the **ASSISTANT PROFESSOR** level, beginning September, 1993. The successful candidate will be expected to teach a graduate course in theoretical/mathematical ecology and participate in other graduate and undergraduate courses as appropriate. Applicants should have a strong research and teaching commitment, with a demonstrated ability to make significant contributions to ecological theory and to its integration with empirical ecology through mathematical modeling. Applicants should submit curriculum vitae, a statement of research interests, reprints, and request that three letters of recommendation be sent to: **Dr. John Silander, Chair, Search Committee, Department of Ecology and Evolutionary Biology, University of Connecticut, U-42, 75 North Eagleville Road, Storrs, CT 06269-3042.** Screening of completed files will begin February 15, 1993 and continue until the position is filled. *We encourage applications from underrepresented groups, including minorities, women and people with disabilities.* (Search #3A140).

### University of Massachusetts Neuroscience and Behavior Program DEVELOPMENTAL NEUROSCIENTIST

A tenure-track position, at the **ASSISTANT or ASSOCIATE PROFESSOR** level, is available in the Neuroscience and Behavior Program at the University of Massachusetts. Any of a number of specialties within the broad area of neurodevelopment would be appropriate. For example, projects involved with learning or plasticity of adult brains, the determination of transmitter phenotype, development of cortical systems of vertebrates or molecular/genetic analysis of neurodevelopment would be appropriate. The successful candidate will be expected to establish an active, externally funded research program. Duties will include undergraduate teaching in the Biology or Psychology Department and graduate teaching in the NSB Program. A Ph.D. degree and postdoctoral experience are required. The salary will be commensurate with experience. Liberal space and start-up funds are available.

Send curriculum vitae, a summary of research interests and have three letters of recommendation forwarded to:

**Dr. R. K. Murphey, Director**  
Neuroscience and Behavior Program  
Morrill Science Center-South (Biology)  
University of Massachusetts  
Amherst, MA 01003

The search will close February 22, 1993 or as soon thereafter as a suitable candidate is found. *The University is an Affirmative Action/Equal Opportunity Employer.*

### ASSISTANT/ASSOCIATE PROFESSOR Biochemistry University of Connecticut

The Department of Molecular and Cell Biology at the University of Connecticut invites applications for an anticipated tenure-track position with a target starting date of September 1, 1993. The successful candidate should have significant postdoctoral experience and will be expected to establish a strong, extramurally funded research program in the general area of protein science. We are particularly interested in receiving applications from individuals who combine biochemical and physical biochemical approaches. The successful candidate also will be expected to participate in graduate training and in the teaching program of the Department. Exceptional candidates will be considered for appointment at the Associate Professor level. Applicants should submit curriculum vitae, reprints or preprints of major publications, a statement summarizing research accomplishments and future plans, and have at least three letters of recommendation sent to: **Professor Richard Crain, Chair, Biochemistry Search Committee, University of Connecticut, Department of Molecular and Cell Biology, U-125, 75 North Eagleville Road, Storrs, CT 06269-3125.** The review of applications will begin on February 15, 1993 and continue until the position is filled. *The University of Connecticut encourages minorities, women, and people with disabilities to apply for this position.* (Search #3A143).



**NATIONAL INSTITUTE ON AGING  
NATIONAL INSTITUTES OF HEALTH  
Senior Staff Fellow Position  
Neuropharmacology/Neuropsychology**

The Laboratory of Neurosciences, Public Health Service, seeks a qualified neuropsychologist for a Staff Fellow/Senior Staff Fellow position dedicated to clinical pharmacology in relation to aging and therapy of Alzheimer's disease. Responsibilities include writing clinical drug protocols and applying cognitive and physiological measures and functional brain imaging (positron emission tomography) to evaluate mechanisms and effectiveness of drug action in the central nervous system. A Ph.D. in neuropsychology or cognitive neurosciences and research experience in clinical pharmacology are required. The position is located at the NIH campus in Bethesda, Maryland, in the laboratory directed by Dr. Stanley Rapoport. Salary is commensurate with experience. Applicants should send a current curriculum vitae and a letter discussing research interests and experience to:

James V. Haxby, Ph.D.  
Laboratory of Neurosciences  
National Institute of Aging  
National Institutes of Health  
Bldg. 10, Room 6C414  
9000 Rockville Pike  
Bethesda, MD 20892  
FAX: 301-402-0595



NIH IS AN EQUAL OPPORTUNITY EMPLOYER

**Assistant Professor  
Department of Biochemistry**

The Department of Biochemistry at Louisiana State University is seeking an Assistant Professor (tenure track). Candidates should have a Ph.D. and postdoctoral research experience in biochemistry or molecular biology and will be expected to establish a vigorous independent research program and participate in teaching at the graduate and advanced undergraduate level. The department is seeking the best available candidate. Facilities available within the department or College of Basic Sciences include: DNA Synthesizer and Sequencer, Peptide Sequencers and Synthesizer, Amino Acid Analyzer, Macromolecular (VAX) computer facility with an Evans & Sutherland Graphics Workstation, TOF and FAB Mass Spectrometers, and 500 MHz High resolution NMR. Salary will be commensurate with qualifications and experience. Send curriculum vitae, description of current and proposed research programs, and names and addresses of three references to:

**Search Committee Chairman  
Department of Biochemistry  
Louisiana State University  
Baton Rouge, Louisiana 70803**



Application deadline is February 15, 1993 or until a suitable candidate is identified.

An Affirmative Action/Equal Opportunity Employer

# BIOLOGICAL SCIENCES

## Cincinnati Center

Marion Merrell Dow Research Institute in Cincinnati, Ohio is seeking a creative, team-oriented pharmacologist and a biologist. Our research-based company is committed to many areas of drug research including cardiovascular diseases, cancer biology, CNS, and metabolic and inflammatory diseases.

## Pharmacologist

Working knowledge of membrane signal transduction, cellular transport, DNA/RNA isolation techniques, enzyme kinetics, radioreceptor assay, radioimmunoassay, and also protein purification and characterization is desirable. Must be able to work independently. The ideal candidate will have:

- M.S. in pharmacology.
- Experience in mammalian primary cell culture, subcellular fractionation of organelles and eukaryotic gene expression.
- Experience in use of radioisotopes and knowledge of tissue culture.

Job Code 03684

## Biologist

Working in a multidisciplinary group applying techniques of molecular biology in the cardiovascular area, the ideal candidate will have:

- B.S./M.S. in biochemistry or cellular/molecular biology.
- Working knowledge of eukaryotic gene expression.
- Experience with tissue culture, intracellular signal transduction pathways, cellular transport, DNA/RNA isolation and recombinant DNA techniques, RIA and ELISA.
- Excellent oral and written communication skills.

Job Code 01805

Excellent compensation includes bonuses, 401(k), and stock options. You'll also find an affordable yet cosmopolitan lifestyle in Cincinnati. Please send resume, 2-3 references, and salary history to: Marion Merrell Dow Inc., Human Resources Dept., Job Code: 03684 or 01805, 2110 East Galbraith Rd., Cincinnati, OH 45215.



**MARION MERRELL DOW  
RESEARCH INSTITUTE**

*An Equal Opportunity Employer*

## POSITIONS OPEN

The Polymer Science and Engineering Department at the University of Massachusetts, Amherst, seeks applications for positions as **ASSISTANT PROFESSORS** of Polymer Science and Engineering beginning fall 1993 or spring 1994. One position sought is in the area of polymer engineering with interests in the experimental mechanics of solids, and the other is in the area of polymer synthesis. Exceptional candidates with established programs may be considered for appointment with tenure as Professor or Associate Professor. Salary commensurate with qualifications and experience. Candidates should send curriculum vitae, a proposed research program, and arrange to have three letters of recommendation sent to: **William J. MacKnight, Chairman, Faculty Search Committee, Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA 01003.** The deadline for receipt of applications is March 1, 1993, but the search will continue until suitable candidates are found. All appointments are subject to final budgetary approval. *The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.*

### APPLIED FRESHWATER ECOLOGIST

The University of Kansas Environmental Studies Program and Department of Systematics and Ecology invite applications for a tenure-track position as **ASSISTANT PROFESSOR** starting 17 August 1993. We seek a productive researcher in applied aspects of aquatic ecology who will participate actively in a large undergraduate Environmental Studies Program, as well as a graduate program in ecology. Ability to teach environmental monitoring and impact assessment required. Annual salary: \$36,000 to \$40,000. Applicants should request a complete position description. Send a letter of application, a statement of research and teaching goals, curriculum vitae, and three letters of recommendation to: **Chair, Ecologist Search Committee, Environmental Studies Program, University of Kansas, Lawrence, KS 66045-2106. Telephone: (913) 864-4169; FAX: (913) 864-5321.** Application deadline 8 February 1993 (postmarked). Funding for this position is contingent upon final budgetary approval. *The University is committed to increasing the ethnic and gender diversity of its faculty, and we strongly encourage female and minority applicants to apply. Equal Opportunity/Affirmative Action Employer.*

### MOLECULAR SYSTEMATIST

The Department of Biological Sciences, The University of Alabama, is seeking Ph.D. applicants with interests in molecular systematics of eukaryotic organisms using nucleic acid sequencing and analytical methods. The appointment is full-time, tenure-track, and at the **ASSISTANT PROFESSOR** level. Applicants should have an established publication record in this area and are expected to maintain extramural funding. The successful candidate will be expected to offer courses in his/her area of expertise at the undergraduate and graduate level. The Department of Biological Sciences includes 34 faculty; the Ecology and Systematics Section has a strong research and educational emphasis in aquatic biology. The faculty member will occupy research facilities in a new Scientific Collections Facility and will have the opportunity for an adjunct appointment with the Alabama Museum of Natural History. Applicants should arrange for the submission of three letters of reference, and should submit curriculum vitae and a description of research plans to: **Dr. Richard L. Mayden, Department of Biological Sciences, The University of Alabama, Box 870344, Tuscaloosa, AL 35487-0344.** Closing date February 15, 1993. *The University of Alabama is an Equal Opportunity/Affirmative Action Employer.*

### MOLECULAR NEPHROLOGIST FACULTY POSITION

The Renal Unit at the Massachusetts General Hospital is searching for a faculty member at the **ASSISTANT PROFESSOR** level. Applicants should have an M.D. degree, Board eligibility or certificate in Nephrology and have a minimum of 4 years of experience in the molecular biology of G proteins and signal transduction in kidney epithelia. The starting salary range is \$50,000. Candidates should submit a letter of application, curriculum vitae, a description of research interests and names and addresses of three references to: **Dr. Dennis A. Ausiello, Chief, Renal Unit, 149 13th Street, Charlestown, MA 02129.**

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

## POSITIONS OPEN

### ASSISTANT PROFESSOR—GROSS ANATOMY

The Department of Anatomy of the Kirksville College of Osteopathic Medicine is seeking applications for a tenure-track assistant professor position. Applicants must hold a doctoral degree in a biomedical science. Previous teaching experience in Human Gross Anatomy is required. Successful candidates should have postdoctoral experience, and must develop an independent research program. Application materials (curriculum vitae, names of three references, and a description of research interests) are to be sent to: **Lex C. Towns, Ph.D., Department of Anatomy, Kirksville College of Osteopathic Medicine, Kirksville, MO 63501.** Effective appointment date is July 1, 1993. *Equal Opportunity/Affirmative Action Employer.*

### CELL AND DEVELOPMENTAL BIOLOGIST

The Biology and Microbiology Department, University of Wisconsin-Oshkosh, invites applicants for a tenure-track **ASSISTANT PROFESSOR** position starting fall 1993. Responsibilities include teaching Cell, Developmental and possibly Introductory Biology; developing a research program, pursuing extramural funding and supervising Master's theses. Training in animal systems preferred. Ph.D. required; postdoctoral and teaching experience desirable. Applications due 1 March 1993. Send application, résumé, 3 recommendation letters and transcripts to: **M. A. Rouf, Department of Biology & Microbiology, University of Wisconsin-Oshkosh, Oshkosh, WI 54901.** *The University of Wisconsin-Oshkosh is an Affirmative Action/Equal Opportunity Employer.*

### ASSISTANT PROFESSOR CONNECTIVE TISSUE BIOLOGY

The Division of Oral Biology is seeking a tenure-track Assistant Professor to begin September 1993. The candidate must hold the Ph.D., D.D.S./Ph.D. or M.D./Ph.D. degree and is expected to participate in Ph.D. training and to develop an independent research program. Teaching to dental students and graduate students is required. The division has an NIH-supported Ph.D. training program. Ongoing research in the division focuses on the connective tissues, with basic studies in collagen, bone/mineralized tissue biology, and tissue repair processes. The candidate's research can be in basic cell, molecular or structural biology. Send résumé and names and addresses of three references to: **Dr. Arthur Veis, Division of Oral Biology, Northwestern University Dental School, 303 East Chicago Avenue, Chicago, IL 60611.** Deadline for application, March 30, 1993. *An Affirmative Action/Equal Opportunity Employer.*

### ASSISTANT/ASSOCIATE PROFESSOR, NEUROBIOLOGY COLUMBIA UNIVERSITY

Applications are invited for three tenure-track positions in the Center for Neurobiology and Behavior, at Columbia University, College of Physicians and Surgeons. Applicants must possess a Ph.D. or M.D. degree and have at least two years of postdoctoral training. Successful candidates will be expected to develop a vigorous, independent research program in one of three areas: (1) Computational neuroscience (theoretical or combined experimental/theoretical approaches); (2) Analysis of the molecular mechanisms of transmitter release; (3) Analysis of the function and control of transcription factors in the nervous system. Submit curriculum vitae, names and addresses of three references, and summary of research objectives, to: **Search Committee, Center for Neurobiology and Behavior, New York State Psychiatric Institute, 722 West 168th Street, New York, NY 10032.** *An Equal Opportunity/Affirmative Action Employer.*

### RESEARCH ASSISTANT MOLECULAR ENDOCRINOLOGY

The Division of Endocrinology at the University of Maryland Department of Medicine is seeking a **RESEARCH ASSISTANT PROFESSOR** to participate in a new molecular biology program concerning hormonal regulation of hypothalamic gene expression, beginning July 1, 1993. Ph.D. degree with minimally two years of experience in endocrine molecular biology research is required. Salary is competitive. Send résumé and three personal references to: **Dr. John F. Wilber, Department of Medicine, University of Maryland School of Medicine, 22 South Greene Street, Baltimore, MD 21201.** *Equal Opportunity Employer.*

## POSITIONS OPEN

Physicians at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level—The University of Texas Medical Branch (UTMB) at Galveston, a historical Gulf Coast island community, is expanding its Geriatrics Division and Center on Aging. Positions are available for Physicians at the Assistant or Associate Professor level who are interested in clinical education, patient care, or health services research. Programs include outpatient evaluation and primary care, a day hospital, an inpatient geriatric unit, home health, and nursing home affiliations. Interested individuals should submit curriculum vitae to: **James S. Goodwin, M.D., Division of Geriatrics, UTMB, Galveston, TX 77555-0460.** *An Equal Opportunity/Affirmative Action Employer M/F/D/V. UTMB is a smoke-free/drug-free workplace. UTMB hires only individuals authorized to work in the United States.*

**BEHAVIORAL PHARMACOLOGIST.** Applicants are being sought for a nontenurable faculty position in the Department of Pharmacology and Toxicology at Virginia Commonwealth University at the rank of **ASSISTANT PROFESSOR.** Applicants should have a Ph.D. or equivalent degree with at least 2 years of postdoctoral experience in behavioral pharmacology research. The selected individual will design and conduct multidisciplinary animal studies with drugs of abuse using operant behavior, drug discrimination and drug self-administration procedures, will be provided encouragement to initiate an independent program of research, and may do some teaching in the area of CNS pharmacology. Applications should include a letter describing research background and interests, curriculum vitae and the names, addresses and telephone numbers of at least three references, sent to: **Dr. Robert L. Balster, Department of Pharmacology and Toxicology, Box 613 MCV Station, Richmond, VA 23298.** Formal consideration of applications will begin February 1, 1993. *Virginia Commonwealth University is an Equal Employment Opportunity/Affirmative Action Employer and encourages women, minorities and persons with disabilities to apply.*

**ENVIRONMENTAL GEOCHEMIST**—The Chesapeake Biological Laboratory (CBL) of the University of Maryland System's Center for Environmental and Estuarine Studies (CEES) seeks an environmental geochemist to fill a tenure-track position at the **ASSISTANT PROFESSOR** level. Current research at CBL includes studies of the geochemistry of natural and anthropogenic organic compounds, the microbially mediated cycling of nitrogen, sulfur, and carbon, and chemical sedimentology. We seek a colleague whose research interests complement these existing programs in environmental chemistry, especially one who employs trace elements and/or radionuclides to probe fundamental environmental processes. Facilities for this position will be housed in the new Coastal Chemistry Laboratory now under construction, which includes trace element and organic cleanrooms and a dedicated mass spectrometry laboratory. CBL encourages interdisciplinary research. For example, CEES is the lead institution in MEERC (Multiscale Experimental Ecosystem Research Center) that seeks to evaluate ecosystem responses to contaminant input. The successful candidate will be expected to establish an externally funded research program. Participation in the university-wide Graduate Education Program is part of the responsibilities of the successful candidate. A Ph.D. in chemistry, oceanography, or related field is required and postdoctoral experience is preferred. Please submit curriculum vitae, a statement of research interests, three publications, and the names of at least three references to: **Dr. Joel Baker, Chair of Environmental Chemistry Search Committee, CBL, Box 38, Solomons, MD 20688.**

Applications received before 1 March 1993 will be given full consideration. *CEES welcomes and encourages applications from minority and women colleagues.*

**CELL BIOLOGIST** at the **INSTRUCTOR** or **ASSISTANT PROFESSOR** level. Candidates with postdoctoral experience and ability to perform independent research preferred. The Department of Otolaryngology supports a strong multidisciplinary basic research program investigating laryngeal function, vocal fold cell biology and laser-tissue interactions. Please send curriculum vitae and three letters of recommendation to:

**Robert H. Ossoff, D.M.D., M.D.  
Chairman, Department of Otolaryngology  
Vanderbilt University, S-2100 MCN  
Nashville, TN 37232-2559**

*Equal Opportunity/Affirmative Action Employer.*





#### ASSISTANT DIRECTOR - DEVELOPMENT CHEMISTRY

Triplex Pharmaceutical Corporation, a rapidly growing, well financed, biotechnology company focused on the design and commercial development of triple helix forming therapeutics for human use, has an immediate employment opportunity available for a highly motivated scientist with experience in nucleic acid chemistry.

Triplex is seeking an Assistant Director for its Development Chemistry Department. This position requires a Ph.D. in Organic Chemistry or Biochemistry with a minimum of 5 years industrial experience in all aspects of synthesis, purification and characterization of oligonucleotides. Experience in large scale synthesis is essential. Laboratory management experience is also required. Familiarity with GLP/GMP regulations is highly desirable. This individual will also possess strong leadership and communication skills and be capable of working in an environment with a strong sense of urgency and dedication.

The individual who meets the above requirements will be responsible for directing large scale synthesis of oligonucleotides. Other responsibilities will include development of procedures and protocols for oligonucleotide scale-up, technical direction and supervision of a team of scientists.

TRIPLEX is located in an attractive community north of Houston offering access to Baylor College of Medicine, Texas Medical Center, Rice University, and the University of Houston. The Company offers competitive salaries and benefits as well as opportunities for publication and rapid career growth in an exciting company. Qualified chemists are encouraged to submit full resumes with references to:

**Human Resources Manager**  
Triplex Pharmaceutical Corporation  
9391 Grogan's Mill Road  
The Woodlands, TX 77380  
Fax: 713/363-1168

#### DEPARTMENT OF BIOLOGICAL SCIENCES AVIAN PHYSIOLOGICAL ECOLOGY

The Department of Biological Sciences invites applications for a tenure track Assistant Professor position. We seek an avian ecologist with proven ability to undertake physiological research on free-living birds in an evolutionary and ecological context. Possible areas of research include energetics, digestion or metabolism, but any relevant area may be considered. The successful applicant will hold an endowed position funded jointly by Simon Fraser University, the Canadian Wildlife Service (CWS), and the Natural Sciences and Engineering Research Council (NSERC) of Canada, and will be part of a team devoted to basic research on the problems faced by birds in changing environments. The candidate will be expected to teach in the biology program and to interact with colleagues in the Department of Biological Sciences and the CWS.

Interested applicants should send a letter outlining their research interests and how they fit the position's profile, a complete curriculum vitae, the names of three referees and three reprints to:

**Dr. B. A. McKeown, Chair**  
ATT: Avian Physiological Ecologist  
Department of Biological Sciences  
Simon Fraser University  
Burnaby, B.C. Canada  
V5A 1S6

**CLOSING DATE FOR APPLICATIONS IS MARCH 1, 1993**

Simon Fraser University is committed to the principle of equity in employment and offers equal employment opportunities to qualified applicants. The Department is particularly interested in increasing the number of qualified female applicants. This advertisement is directed to applicants who at the time of application are eligible for employment in Canada. This position is subject to budgetary confirmation.

## A Clear-Cut Advantage.

At CV Therapeutics, a growing biopharmaceutical company focused on cardiovascular diseases, we have a clear-cut advantage in the development of novel drugs. Our proprietary technology and scientific team put our research efforts at the forefront of the industry. We currently have several opportunities available for Ph.D. scientists to contribute to our research efforts at our San Francisco Bay Area location.

### Cell Culture

Using site-directed mutagenesis, this research will emphasize the correlation between structure and function of a variety of proteins that mediate cholesterol transport. Accordingly, you will develop and provide routine maintenance of a cell culture assay for the uptake of cholesterol. You will also initiate a drug discovery program to find candidates to block cholesterol absorption. Your Ph.D. in Biology, Cell Biology or a related field should be complemented by 2+ years' postdoctoral or industrial experience. Some experience in molecular biology would be helpful. Please refer to Dept. #CC/CAS.

### Molecular Biologist

Working within our vascular biology group, you will develop *in vitro* and *in vivo* models to study angiogenesis and restenosis injury with a focus on cytokine and growth factor biology in these settings. Your Ph.D. in Molecular Biology, Chemistry or a related field should be complemented with a minimum of 2 years' postdoctoral experience. Ability to screen libraries, clone and sequence DNA is essential. Experience with gene expression and the ability to work with RNA required. Experience with mutational analysis desired. Please refer to Dept. #MB/PGM.

### Lipid Biochemist

You will study the role of recently characterized lipid inflammatory factors. Research emphasis will focus on extraction, isolation and characterization of leukocyte-activating lipid factors produced by *in vivo* models of inflammation. Additional lines of investigation include evaluation of lipid inhibitors of mediator synthesis and the design and synthesis of potential antagonists of receptor activation. You will need a Ph.D. in Cell Biology, Biochemistry or a related field, combined with 3-5 years' practical experience with lipid receptors and the biology of inflammation. Please refer to Dept. #LB/GFS.

Learn more about all of the professional and personal advantages we offer our people. Send your C.V., indicating the appropriate Dept. #, and the names of three references along with a cover letter to: Pat Donchin, CV Therapeutics, Inc., 1615 Plymouth Street, Mountain View, CA 94043. EOE.



## POSITIONS OPEN

### UNIVERSITY OF WYOMING

The Department of Zoology & Physiology invites applications for a tenure-track position of **ASSISTANT PROFESSOR** to work in the area of Environmental Science/Bioremediation. The successful candidate is expected to participate in and develop interdisciplinary research related to environmental contaminants. Research should include basic inquiry into chemical and/or microbial processes related to prevention or remediation of groundwater contamination. Teaching will include undergraduate and graduate instruction. Applicants must have a Ph.D. in biological or environmental science, and be able to interact with environmental chemists, geochemists, environmental toxicologists, microbiologists, and ecologists. Submit a résumé, copies of transcripts, a brief description of research and teaching interests, and 3 reference letters by 15 February 1993 to: **Environmental Science Search Committee, Department of Zoology & Physiology, University of Wyoming, Laramie, WY 82071.** *The University of Wyoming is an Affirmative Action/Equal Opportunity Employer.*

### ASSISTANT PROFESSOR GENETICS/DEVELOPMENT

The Department of Biology at Cedar Crest College invites applications for a tenure-track position beginning in August 1993. Teaching responsibilities will include an upper level course in genetics, developmental biology, strong participation in the first-year introductory biology courses and additional courses in the applicant's area of interest. A demonstrated ability to conduct research involving undergraduate students is desirable. Candidates must have a doctorate in an appropriate field in biology and an enthusiasm for undergraduate teaching. Cedar Crest College is an independent four-year liberal arts college for women. The college, located in eastern Pennsylvania, offers easy access to both Philadelphia and New York.

Qualified applicants should submit complete curriculum vitae, a description of teaching philosophy, experience, and research interests, and at least three letters of reference to: **Dr. Brian S. Misanko, Chair, Department of Biology, Cedar Crest College, 100 College Drive, Allentown, PA 18104-6196.**

### VERTEBRATE ZOOLOGIST

Tenure-track position, **ASSISTANT PROFESSOR**, beginning fall 1993 (pending budget approval). Teaching responsibilities include General Zoology, Vertebrate Zoology, Ichthyology, and Herpetology. Research involving undergraduate and graduate students is expected. Applicants must have a Ph.D. in a biological science. Submit by February 5, 1993, curriculum vitae, official transcripts, statement of research interests, and three letters of recommendation to: **Dr. Steven A. Smith, Department of Biology, Texas A&I University, Kingsville, TX 78363.**

*Texas A&I University is an Equal Opportunity/Affirmative Action Employer.*

## ECOLOGIST

The Department of Biological Sciences invites applications for a tenure-track position in ecology at the level of **ASSISTANT PROFESSOR**. Applicants should have demonstrated ability in research and are expected to develop an externally funded research program. Postdoctoral experience required. Research concentration should be in one of the following areas: population, community, behavioral, molecular, or evolutionary ecology combined with experience in and a strong commitment to conservation biology. Duties include teaching and helping to develop a graduate biodiversity program. Expected start date: September 1993. Applicants should send curriculum vitae, statement of experience and research plans, and names and telephone numbers of three referees by February 15, 1993 to:

**Margaret M. Stewart, Ph.D., Chair,  
Search Committee  
Department of Biological Sciences  
University at Albany—SUNY  
1400 Washington Avenue  
Albany, NY 12222**

*The University of Albany, SUNY, is an Equal Opportunity/Affirmative Action Employer. Applications from women, minority, handicapped persons and special disabled or Vietnam era veterans are especially welcome.*

## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR DEPARTMENT OF ANATOMY & NEUROBIOLOGY DALHOUSIE UNIVERSITY HALIFAX, NOVA SCOTIA

The Department of Anatomy & Neurobiology at Dalhousie University is seeking applications for a tenure-track position to commence July 1, 1993. Candidates must have a Ph.D. and have undertaken postdoctoral training. The candidates will be expected to develop a strong, independent research program and contribute to graduate training. The ability to teach histology, gross anatomy or neuroanatomy is required. Current research activities within the department include neurobiology, functional morphology and cell biology. Excellent facilities and start-up funds are available. Applications must include curriculum vitae, representative reprints, an outline of present and future research directions, a summary of teaching experience and the names of three referees. Application review will begin March 1, 1993. *Dalhousie University is an Employment Equity/Affirmative Action Employer. The University encourages applications from qualified women, aboriginal peoples, visible minorities and persons with disabilities. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.* Please apply to: **Dr. D. A. Hopkins, Professor and Head, Department of Anatomy & Neurobiology, Faculty of Medicine, Dalhousie University, Halifax, Nova Scotia, Canada, B3H 4H7. Telephone: 902-494-6850; FAX: 902-494-1212.**

### ASSISTANT/ASSOCIATE PROFESSOR MOLECULAR BIOLOGY/IMMUNOLOGY Department of Obstetrics, Gynecology and Reproductive Sciences

University of Pittsburgh School of Medicine

The Department of Obstetrics, Gynecology and Reproductive Medicine is seeking a molecular biologist/immunologist for a faculty position in the Division of Reproductive Infectious Disease and Immunology. Candidates must have Ph.D. or M.D., molecular and cellular research expertise, and demonstrated scholarly accomplishment. Duties include the development of a successful research program in the area of molecular pathogenesis and/or immunology of reproductive tract infections. The position provides a support package and protected research time. Salary is dependent upon rank and experience.

Applications with curriculum vitae should be sent to: **Richard L. Sweet, M.D., Chair, Department of Obstetrics, Gynecology and Reproductive Sciences; University of Pittsburgh School of Medicine; Department OB/GYN; Magee-Womens Hospital; 300 Halket Street; Pittsburgh, PA 15213.**

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

### MISSOURI MICROBIOLOGIST, DEPARTMENT OF ORAL BIOLOGY

The University of Missouri-Kansas City, School of Dentistry is seeking a person for a full-time, tenure-track position in the Department of Oral Biology at the academic rank of **ASSOCIATE PROFESSOR** or **PROFESSOR** beginning September 1, 1993. Minimum qualifications include a Ph.D. in microbiology or related field. Expertise with microorganisms associated with periodontal diseases and experience in teaching and supervising graduate students preferred. Candidates will have a history of a successful independent research program with demonstrated ability of attracting research funds. Job requirements include teaching and supervising graduate students at the certificate, master's and Ph.D. levels; conducting independent research; and collaborating with clinical scientists in the Clinical and Applied Research Center at the School of Dentistry. Send a résumé and letter of application to: **Dr. Marilyn Harrington, Associate Dean, UMKC School of Dentistry, 650 East 25th Street, Kansas City, MO 64108.**

More than 150,000 people paid to see your ad in **SCIENCE**. Classified Advertising Department telephone: 202-326-6555. FAX: 202-682-0816.

## POSITIONS OPEN

### FACULTY POSITIONS BIOCHEMISTRY/MOLECULAR BIOLOGY

The Department of Biochemistry at the State University of New York at Buffalo School of Medicine and Biomedical Sciences invites applications for twelve-month tenure-track positions at the **ASSISTANT PROFESSOR** and **ASSOCIATE PROFESSOR** levels. Candidates are expected to develop a competitive research program, to demonstrate a commitment to graduate training and to contribute to departmental teaching responsibilities. We are particularly seeking individuals who have an interest and expertise in the mechanism and regulation of gene expression, although applicants from all areas of biochemistry are encouraged to apply. The basic science program in the Medical School is undergoing a substantial expansion in personnel, concomitant with the construction of a new 120,000 square foot research building. It is envisioned that this building will serve to strengthen the close contacts which currently exist among members of the Medical, Dental and Pharmacy Schools, the College of Natural Sciences and Mathematics, the hospital-based research programs, and the staff at the Roswell Park Cancer Institute. We believe that an unusual opportunity exists in Buffalo for aggressive young scientists to contribute to the development of an exciting research environment. Send complete curriculum vitae, a statement of research interests and future plans, reprints of recent publications and the names and addresses of three references to: **Chairman, Faculty Search Committee, Biochemistry Department 140 Farber Hall, State University of New York, South Campus, 3435 Main Street, Buffalo, NY 14214-3000.** *The State University of New York is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

### BOTANIST/ECOLOGIST

**VISITING ASSISTANT PROFESSOR.** One-year appointment in Plant Biology and Ecology for 1993-94 academic year; may become tenure-track the following year. Teaching introductory biology, plant biology, and general ecology, and supervising greenhouse and associated facilities. Collaborative research with undergraduates is expected. The Ph.D. degree is required. Candidates with qualifications beyond Assistant Professor level will be considered. Send letter of application, curriculum vitae, transcripts and three letters of recommendation to: **Dr. John Ward, Dean, Centre College, 600 West Walnut Street, Danville, KY 40422.** *Centre College is an Equal Opportunity Employer. Applications from women and minority groups are encouraged.*

**INSECT EVOLUTIONARY/SYSTEMATIC BIOLOGIST** at the University of Maryland, College Park. Tenure-track, **ASSISTANT PROFESSOR** position starting January 1, 1994. Research interests in insect systematics and/or evolutionary aspects of insect biology, e.g. behavior, ecology, morphology, embryology or physiology. The position includes teaching responsibilities in insect classification and morphology, and in the incumbent's specialty. The successful candidate will participate in a systematics/evolution graduate program. Applicants must hold a Ph.D., and should send curriculum vitae, a statement of research and teaching experience and goals, complete transcripts, and the names of 5 referees to: **Insect Comparative Biology Search, Department of Entomology, University of Maryland, College Park, MD 20742 by February 12, 1993.** *Affirmative Action/Equal Opportunity Employer.*

### FACULTY POSITION IN GENERAL MICROBIOLOGY

The Department of Biology, Middle Tennessee State University, invites applications for a tenure-track teaching position, Position #103130 (**ASSISTANT PROFESSOR**, Ph.D.) available August, 1993. The successful applicant must have a strong background in general microbiology and parasitology, will teach lecture and laboratory sections in those areas at the undergraduate and graduate level, and direct student research. Research and/or public service is expected. *Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.* Application deadline February 22, 1993 or until position is filled. Send letter of application referencing the position number, transcripts and three letters of reference to: **Dr. Mary Reyes, Search Committee Chair, Box 335, MTSU, Murfreesboro, TN 37132.**

## MEET AMGEN

*Our entrepreneurial environment  
naturally evolves as a function of our  
mission: the development of recombinant  
DNA-based human therapeutics,  
utilizing the principles of cellular and  
molecular biology...through rapid product  
development and innovative commercialization strategies.*

### Research Scientists in Protein Chemistry

As a Research Scientist, you will be working on the purification and characterization of natural and recombinant proteins. A Ph.D. in biochemistry or a related field coupled with 2-5 years post doctoral experience in chromatography and electrophoretic techniques is essential. Knowledge of ligands/receptors will be an asset. **(Job Code S-511)**

### Research Associates in Protein Chemistry

As a Research Associate, you will possess a BA/MS degree in Biochemistry or a related field, and 2+ years' laboratory experience. Under the guidance of Scientists, you will be working on the purification and characterization of natural and recombinant proteins. Knowledge of chromatography and electrophoretic techniques is an asset. **(Job Code S-512)**

At Amgen, we invest our employees with the freedom to manage their affairs, regulate the quality of work, and make decisions within company goals. And we back this freedom with meaningful challenge and responsibility, as well as a compensation and benefits package that reflects the level of our commitment. If you're interested in these positions, please send your resume/CV, in confidence, to: **Amgen Inc., Staffing, MS 10-1-A-411, Job Code (See Above), Amgen Center, Thousand Oaks, CA 91320-1789.**  
Equal Opportunity Employer M/F/D/V.

# AMGEN

## TECHNICAL DIRECTOR OFFICE OF NAVAL RESEARCH AND DEPUTY CHIEF OF NAVAL RESEARCH FEDERAL SENIOR EXECUTIVE SERVICE POSITION

The Technical Director (TD), Office of Naval Research (ONR), and Deputy Chief of Naval Research (DCNR) is the senior civilian manager in ONR. The mission of ONR is to plan and manage all Science and Technology for the Department of the Navy, including an annual investment of \$1.5 billion in basic research, exploratory development, and advanced technology development. The Chief of Naval Research reports to the Secretary of the Navy.

The TD/DCNR reports directly to the Chief of Naval Research (a Rear Admiral, U.S. Navy) and provides executive, technical, and scientific direction to ONR in the performance of its mission. The TD/DCNR exercises line management over ONR headquarters, the Naval Research Laboratory, and foreign offices in Europe and Asia. The incumbent will serve as the CNR's direct representative to the highest levels of the Department of Defense, the Department of the Navy, other branches of government, and national and international technical societies.

Fully qualified applicants will have extensive knowledge and experience in Science and Technology management; planning; policy development; and broad insight into national, Defense, and Naval challenges, opportunities, and programs. Demonstrated ability in execution of significant technology demonstration programs is highly desirable. Such knowledge and ability normally includes a doctorate level degree in one of the physical sciences or in engineering, or its equivalent in experience.

The selectee for this position will be offered a career appointment in the Federal service at the ES-1 (\$90,000) to ES-6 (\$112,000) level, depending on qualifications. An exceptionally well-qualified selectee may be authorized a one-time recruitment bonus of 25% of base salary (non-Federal employee) or a 25% relocation bonus (for Federal selectee only). In addition, career SES appointees compete for annual awards and bonuses based on job performance.

Interested individuals should submit a resume or Standard Form 171, Application for Federal Employment (available at Federal Job Information Centers or from the address below), to:

Office of Naval Research (Code 01HR1)  
Ballston Tower #1  
Attn: Announcement #92-31 (S)  
800 N. Quincy Street  
Arlington, VA 22217-5660

Applications will be accepted through 1 March 1993, and must be received by that date. For further information, please call (703) 696-4705, or TDD (telecommunication device for the deaf) (703) 696-2681.

*U.S. Citizenship Required*

*An Equal Opportunity Employer*



## Readership/Senior Lectureship/ Lectureship in Zoology (Ref: 92/93-39)

Applications are invited for the above posts, tenable from early 1993. Applicants should have an appropriate higher degree, normally a PHD, and relevant teaching and experience/research interest in one of the following areas: general zoology, invertebrate zoology, entomology, neuroscience, biotechnology, food and nutritional science, genetics, developmental biology, animal behaviour.

Annual salaries (superannuable) are on the scales: Reader HK\$557,100-740,100 (9 points) (approx US\$72,225-96,000); Senior Lecturer HK\$534,000-717,360 (9 points) (approx US\$69,260-93,042); Lecturer HK\$343,680-574,140 (11 points) (approx US\$44,575-74,467). (US Dollar equivalent as at 4th December 1992).

Starting salaries depend on qualifications and experience. Salaries tax is currently 15% of gross income. Appointments are normally made on permanent, superannuable terms, subject to a period of probation of not less than 33 months. Staff benefits include generous leave provisions, medical benefits and children's educational allowances; housing assistance is also provided in most cases, at a charge of 7.5% of salary.

Further particulars and application forms may be obtained from Appointments (41288A), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, UK, or from the Staffing Section, Registry, The University of Hong Kong, Hong Kong (Fax (852) 5592058; E-mail: APPTUNIT@HKUVM1.HKU.HK). Please quote title of post/department and reference number in all correspondence.

Closes: 5th February 1993.

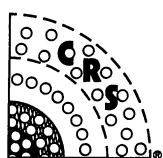
## POSTDOCTORAL FELLOWSHIP

A 2-year postdoctoral position in pulmonary pharmacology is currently available in the Pharmacology Department at ICI Pharmaceuticals Group.

Candidate will be involved in ongoing research concerning effects and mechanisms of effects of C-fiber activation in the airways. Studies will also involve modulation of C-fiber responses.

PhD or equivalent in a biological science is required. Experience with isolated tissue preparations and measurement of physiological or pharmacological responses is preferred.

Interested candidates should submit a c.v. to: **Melanie M. Lewis, Human Resources, ICI Pharmaceuticals Group, Concord Pike and New Murphy Road, Wilmington, DE 19897.**



## 20th International Symposium on Controlled Release of Bioactive Materials

July 25-28, 1991

Grand Hyatt Hotel Washington, D.C., U.S.A.  
Sponsored by the Controlled Release Society, Inc.



The expanding world view of controlled release will come into focus in Washington, D.C., as leading researchers from around the world present new and contemporary topics in the fields of controlled release and delivery of drugs, biologicals and chemicals. We are seeking papers relating to all areas of controlled delivery, including:

- |                            |                             |
|----------------------------|-----------------------------|
| • Agrichemical Delivery    | • Biotechnological Advances |
| • Chronopharmacology       | • Consumer Products         |
| • Mathematical Modeling    | • Modulated Drug Delivery   |
| • Oral Delivery            | • Parenteral Administration |
| • Peptide/Protein Delivery | • Targeting                 |
| • Transdermal Delivery     | • Transmucosal Delivery     |
| • Vaccines                 | • Veterinary Delivery       |

As part of this special meeting, we will present two half-days of plenary speakers who will address the current and future technical as well as biological aspects of the field.

For more information, please contact:  
1020 Milwaukee Avenue, Suite 235, Deerfield, IL 60015 U.S.A.  
Telephone: 708/808-7071; Fax: 708/808-7073

## HOPKINS MARINE STATION of STANFORD UNIVERSITY

announces the availability of  
a tenured position.

The Hopkins Marine Station of Stanford University invites applications from distinguished senior scientists in the fields of evolution, conservation biology, population genetics, or phylogeography. We seek candidates who have made outstanding contributions to their field by the application of modern molecular and genetic techniques to address fundamental problems in evolutionary biology. Current and future interest in working on marine organisms is necessary. The appointment will, most likely, be made at the level of Full Professor in the Department of Biological Sciences with residence at the Hopkins Marine Station. Applications, including research interests, *curriculum vitae*, and the names of five potential references, should be sent to **Dr. Dennis A. Powers, Director, Hopkins Marine Station, Stanford University, Pacific Grove, California 93950-3094, no later than February 8, 1993.**

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

With success comes growth, with growth a clarion call for dedicated professionals to join us in the search for new, advanced and improved pharmaceutical products to treat cardiovascular, pulmonary, immune-mediated, viral and other selected diseases. As 1993 approaches, resourceful and enthusiastic team players will be needed to fill the new positions created by our ongoing expansion in anticipation of another year of leadership in the scientific community.

## DRUG METABOLISM SCIENTIST II/III

You will be responsible for isolating drugs and metabolites from laboratory animal and human studies for identification by mass spectrometry and NMR. In addition, you will be directly involved in the quantitation of drugs and/or metabolites in biological samples; methods development in separation/identification techniques; performing radio-labeled tracer (tritium, carbon-14) studies; and generating data and reports.

Requires a BS or MS in Chemistry or Analytical Biochemistry with a minimum of 3 years experience in a similar position, including chromatographic separation of trace quantities of exogenous or endogenous metabolites from biological matrices and chromatographic method development (HPLC/GC). Good verbal/written communication skills are essential. **RESPOND TO DEPT. MH-301-1S**

## DRUG METABOLISM SCIENTIST I/II

You will be responsible for analyzing biological samples from *in vivo* ADME, and pharmacology studies and clinical trials; and performing qualitative analysis of metabolites and generating data/reports.

**BRAND NEW  
YEAR, BRAND NEW  
OPPORTUNITIES.**

Requires a BS or MS in Chemistry or Biochemistry, experience in quantitation and/or HPLC and good verbal/written communication skills. Experience in analysis or an interest in learning analysis of samples from *in vivo* studies is essential. **RESPOND TO DEPT. MH-302-1S**

## BIOANALYTICAL SCIENTISTS

The successful candidates will be responsible for the development of bioanalytical assay methods for the quantitation of drugs and metabolites in biological fluids in support of clinical and pre-clinical studies. In addition, the successful individuals will analyze samples from routine clinical and pre-clinical studies, and operate and maintain state-of-the-art analytical instrumentation.

Requirements include a BS or MS in Pharmaceutical, Analytical or Biological Science with good interpersonal and communication skills and a minimum of 3 years experience in the following: chromatographic assay methods development using HPLC, GC and/or GC/MS, GLP compliance, assay validation, sample preparation techniques including derivatization and solid phase extraction, and computer software associated with lab automation. **RESPOND TO DEPT. MH-305-1S**

Located in a beautiful area of western Connecticut, we offer a highly competitive compensation and benefits package, relocation assistance to those that qualify and a company matched retirement savings plan.

For consideration, send resume and salary history, indicating appropriate dept code, to: Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877-0368. *We are an equal opportunity employer m/f/d/v. As a progressive health care company, we have a nonsmoking environment.*



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Ingelheim**

**dkfz**

## DEUTSCHES KREBSFORSCHUNGSZENTRUM Professorship (C4) for Experimental Therapy of Malignant Tumors

The Deutsche Krebsforschungszentrum (German Cancer Research Center) will appoint a scientist jointly with the Faculty for Theoretical Medicine at the University of Heidelberg. The successful applicant will be head of a research division.

Applicants should have an outstanding scientific record in the field of development and/or application of anti-cancer drugs or biological response modifiers.

We anticipate that the successful applicant is able to develop new concepts in cancer therapy with the groups in this Center and in close collaboration with the surrounding hospitals.

Applicants should submit their curriculum vitae together with a list of publications and references by March 15, 1993 to Prof. Dr. H. zur Hausen, im Neuenheimer Feld 280, D-6900 Heidelberg, Germany

## THE AARON DIAMOND FOUNDATION POSTDOCTORAL RESEARCH FELLOWSHIPS *in the Biomedical and Social Sciences*

In 1993, The Aaron Diamond Foundation will support 25 postdoctoral research fellowships—to encourage excellence in research addressing the problems of AIDS and drug abuse and to increase the number of biomedical and social scientists working in New York City on these problems. The fellowship program is administered by the New York State Health Research Council, aided by a panel of distinguished scientists comprising the Fellowship Selection Committee.

The fellowship application is co-developed by the potential fellow and a mentor at a New York City institution. A list of nearly 200 established scientists interested in serving as mentors is included in the application materials, although applicants may apply with any qualified New York City scientist.

Support is provided for two years; a third fellowship year may be awarded upon subsequent application. The annual stipend is \$36,000 in the first year; the mentor's institution receives \$30,000 per year to cover costs associated with the fellow's research.

Preference is given to: (1) those with doctoral degrees awarded after 1986 (generally MDs must have completed their residency, while applicants with non-medical degrees may initiate the fellowship immediately after graduation); (2) applicants early in their careers, with three or fewer years of postdoctoral research experience; (3) those who are relocating to New York City; and (4) U.S. citizens or permanent residents. Women and members of minority groups are especially encouraged to apply.

**APPLICATION DEADLINE: JULY 30, 1993**

### FURTHER INFORMATION:

Margaret Brown, Ph.D., Program Director  
The Aaron Diamond Foundation Postdoctoral Research  
Fellowship Program  
5 Penn Plaza, Room 308  
New York, NY 10001  
(212) 613-2525



## DIRECTOR UNIVERSITY OF CALIFORNIA INSTITUTE FOR MEXICO AND THE UNITED STATES

Nominations and applications are invited for the position of Director of the University of California Institute for Mexico and the United States (UC MEXUS). UC MEXUS is a formally recognized Multicampus Research Unit (MRU) of the University of California. The director is the chief academic and administrative officer of the program with full executive and financial responsibility for its administration. The Director reports to the President of the University through the Chancellor of the Riverside campus, where the Institute is headquartered. The successful candidate will receive a tenured appointment in an academic department at Riverside appropriate to his or her qualifications. Established in 1980, UC MEXUS's mission is to develop and sustain a coordinated, Universitywide approach to Mexico-related studies. UC MEXUS promotes education, research, public service, and other scholarly activities in four principal areas:

Mexico Studies (studies of Mexican history, society, politics, culture, arts, and economy);

United States-Mexico Relations (contemporary and historical studies of the economic, political, demographic, and cultural interactions between Mexico and the United States);

Chicano Studies (the history, society, and culture of the Chicano population and its relations with Mexico and Mexican immigrants in the United States); and

Collaborative Research between U.S. and Mexican scientists in the social, physical, biological, engineering, health, agricultural, and marine sciences, as well as in the arts and humanities (as they relate to Mexico, U.S.-Mexican relations, and Mexican-origin populations in the United States).

Within this broad definition, UC MEXUS seeks to identify, encourage, seek financial support for, and publicize research programs which promise to contribute substantially to scholarship, to enhance University instruction, particularly in graduate and professional areas, and to make positive contributions to society in both Mexico and the United States.

Candidates must demonstrate distinguished scholarly achievement in a field of interest to UC MEXUS and must be eligible for a tenured faculty appointment at the University of California, Riverside. In addition, candidates must possess proven administrative ability and experience in obtaining grants, raising funds, and developing programs. The ability to interact effectively with a wide variety of faculty and administrative personnel, fluency in both Spanish and English, and direct knowledge of Mexico and its institutions are also required.

Applicants should submit their letter and curriculum vitae to:

**Chair, UC MEXUS Search Committee**  
**Office of the Associate Vice President**  
**Kaiser Center**  
**University of California**  
**300 Lakeside Drive, 18th Floor**  
**Oakland, CA 94612-3500**

To ensure consideration, applications must be received by March 1, 1993  
The University of California is an Equal Opportunity, Affirmative Action Employer

## POSITIONS OPEN

### BIOLOGIST/ENVIRONMENTAL SCIENCE EDUCATOR

The Biology Department, Middle Tennessee State University, invites applications for a tenure-track teaching position, Position # 103300 (ASSISTANT PROFESSOR rank) beginning August 1993. Doctorate in biology or environmental science with strong background in biology and environmental science required. Successful applicant will teach courses in general biology and life science for teachers. Research and/or public service is required. *Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.* Applications deadline February 22, 1993 or until position is filled. Send letter of application referencing the position number, transcripts and three letters of reference to: **Dr. Patrick Doyle, Search Committee Chair, Box 173, MTSU, Murfreesboro, TN 37132.**

### DEPARTMENT OF PHARMACOLOGY MEDICAL COLLEGE OF OHIO

Applications and nominations are invited for an ASSISTANT, ASSOCIATE or FULL PROFESSOR to join an established, research-oriented department with a long-standing record of strong extramural support. Priority will be given to candidates using modern techniques to study significant biological questions at the molecular and/or cellular level. Junior-level applicants should have at least 2 years of postdoctoral experience, and show superior promise for building an independent, extramurally funded research program. Senior-level applicants are expected to have a funded program and a solid history of productivity. *Applications from women and underrepresented minorities are particularly invited. The college is an Equal Opportunity/Affirmative Action Employer.* Applicants should send curriculum vitae, names of at least 3 references, and a description of current and future research to: **Dr. Howard C. Rosenberg, Faculty Search Committee, Department of Pharmacology, Medical College of Ohio, Toledo, OH 43699-0008.**

**ASSISTANT or ASSOCIATE PROFESSOR:** **Neuropharmacology or Toxicology.** The Department of Pharmacology, Toxicology and Therapeutics at the University of Kansas Medical Center invites applications for a tenure-track position at either the Assistant or Associate Professor level. The applicant must have a Ph.D. or M.D. degree, with two or more years of postdoctoral experience. The successful candidate will be expected to establish an independent research program in neuropharmacology, molecular neurosciences related to pharmacology or toxicology and contribute to the teaching of graduate and medical students. Affiliations with the Center for Environmental and Occupational Health and the Mental Retardation Research Center are possible. Curriculum vitae and the names of three references should be sent to: **Dr. S. J. Enna, Department of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Center, Kansas City, KS 66160-7417. The University of Kansas is an Affirmative Action/Equal Opportunity employer.**

**FACULTY POSITION IN MICROBIOLOGY,** **North Carolina State University.** Applications are being accepted for a tenure-track, research and teaching position at the ASSISTANT PROFESSOR level. The desired candidate will have research experience with the genetics, molecular biology or physiology of the archaeobacteria and will develop an independent basic research program in that area. Opportunities exist for consultation and interaction with faculty in other departments having applied projects in bioremediation, resource, and waste management. Participation in the development of a new lecture-laboratory course and student advising will be the responsibility of the appointee. Applicants must possess a Ph.D. degree with at least two years of relevant postdoctoral experience. Applicants should send curriculum vitae, a statement of research interest, and names, addresses, telephone and FAX numbers of three persons who may be contacted as references to: **Dr. Eric Miller, Chairman, Microbiology Search Committee, Department of Microbiology, North Carolina State University, Box 7615, Raleigh, NC 27695-7615.** Closing date for the receipt of all materials is March 1, 1993. Incomplete or late applications will not be considered. Documentation of credentials and identity will be required before hiring. *North Carolina State University provides Equal Employment Opportunity without regard to race, religion, national origin, age, or sex.*

## Senior Program Officer Breast Cancer

The National Research Council is seeking a Senior Program Officer for the Institute of Medicine's Study on Research in Breast Cancer. Responsibilities include assisting in program conduct and planning; designing research methodology; overseeing data collection, analysis and interpretation; planning meetings and a public hearing; assisting in final report writing and public hearing testimony; and managing the final report review/publishing process. Requires a Ph.D. in a health research field, at least four years experience in cancer research and familiarity of general women's health issues, excellent organization, written and oral communication skills; demonstrated capability in research, technical and/or policy analysis; and proficient supervision skills. Send resume to: IOM (JC/FO 3014), 2101 Constitution Avenue, N.W., Washington, DC 20418. EOE.

**NATIONAL  
RESEARCH  
COUNCIL**



## FACULTY POSITIONS IN MOLECULAR ONCOLOGY

### St. Jude Children's Research Hospital

Seeks qualified molecular biologists for its expanding biomedical research program. The newly established Department of Experimental Oncology has immediate openings for several faculty positions. M.D.'s and Ph.D.'s whose research focuses on the genes and proteins involved in cancer induction and progression are encouraged to apply. Although preference will be given to physician-scientists who have recently completed postdoctoral training and have strong interests in molecular medicine, applicants with extensive experience in cancer research will be considered for positions at the associate and full-member levels. Successful applicants will work in a 240,000 square foot research center, completed in 1991, which houses all of the institute's scientific programs. Opportunities exist for interaction with specialists in Virology/Molecular Biology, Biochemistry, Immunology, Tumor Cell Biology, Pharmacology, Hematology/Oncology, and Infectious Diseases. St. Jude provides generous start-up funds, nationally competitive salaries and an excellent benefits package. A strong institutional commitment to the basic science faculty ensures stability in program development and continuity of research activities.

Applicants should submit a C.V., a letter summarizing their research accomplishments and goals, and the names of three references to:

**Dr. A. Thomas Look, Chairman**  
**Department of Experimental Oncology**  
**St. Jude Children's Research Hospital**  
**332 North Lauderdale**  
**Memphis, TN 38105 U.S.A.**

AFFIRMATIVE ACTION/  
EQUAL OPPORTUNITY EMPLOYER

## POSITIONS OPEN

**ASSISTANT PROFESSOR**, Nutrition/Dietetics, Food Science and Human Nutrition Department, Institute of Food and Agricultural Sciences, University of Florida; 12-month, tenure-track. Qualifications include an earned doctorate in nutrition or related discipline and registered dietitian (R.D.); clinical or postdoctoral experience preferred. Duties and responsibilities include: teaching and assisting in the administration of the undergraduate (DPD) and graduate (Combined MS-AP4) dietetics programs, and development of a research program that complements an existing departmental area (basic and clinical nutrition, nutritional biochemistry, dietetics, food science and toxicology). Application requirements include complete curriculum vitae, transcripts sent *directly* from the institutions, a minimum of 3 letters of reference, and a statement (refer to position #FSHN-1117) outlining career goals as well as teaching, research, and professional interests. All information must be submitted by March 15, 1993, to: **Dr. Harry S. Sitren, Chair of Search and Screen Committee, Food Science and Human Nutrition Department, IFAS, University of Florida, P.O. Box 110370, Gainesville, FL 32611-0370, Telephone: (904) 392-1991, Extension 116; FAX: (904) 392-9467.** *The University of Florida is an Equal Opportunity/Affirmative Action Institution and encourages applications from females and minorities.*

The Biology Department of La Salle University, a Roman Catholic, four-year, liberal arts University under the auspices of the Brothers of the Christian Schools, invites applications for a tenure-track, **ASSISTANT PROFESSOR** position for September 1993.

The successful candidate must possess the Ph.D. and a demonstrated strength in undergraduate teaching. Demonstrated ability to teach upper division courses in molecular biology and biochemistry, and introductory biology courses is required. The ability to teach Immunology and/or Microbiology is an asset. Committee work, student advisement, active participation in department activities and continued professional development are also expected.

Applicants should submit a letter of application, curriculum vitae, statement of career goals and 3 letters of recommendation to: **Search Committee, Biology Department, La Salle University, 1900 West Olney Avenue, Philadelphia, PA 19141-1199.** Closing date: February 5, 1993 or until a suitable candidate is identified. *La Salle University is an Equal Employment Opportunity/Affirmative Action Employer and Educator. Women and minorities are encouraged to apply.*

### FACULTY POSITION IN ANATOMY/PHYSIOLOGY

The Biology Department, Middle Tennessee State University, invites applications for a tenure-track teaching position, Position # 103030 (**ASSISTANT PROFESSOR**, Ph.D.) beginning August, 1993. The successful applicant must have a strong background in Anatomy and Physiology, shall teach lecture and laboratory sections in A & P and direct student research. Applicants must also be able to teach at least one of the following courses: Developmental Biology (Anatomy), Endocrinology, or Histology. Research and/or public service expected. *Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.* Application deadline February 22, 1993 or until position is filled. Send application letter referencing the position number, transcripts and 3 letters of recommendation to: **Dr. Ralph Sharp, Search Committee Chair, Box 214, MTSU, Murfreesboro, TN 37132.**

### MICROBIOLOGY

The Discipline of Microbiology invites applications for a tenure-track position in microbiology at the **ASSISTANT PROFESSOR** level, beginning fall 1993. A Ph.D. is required. The candidate is expected to teach medical microbiology to first- and second-year osteopathic medical students. Major emphasis is on teaching and service to the college, but research is encouraged. *The College actively seeks applications from women and minorities for this position.* Applicants should submit curriculum vitae, transcripts, three letters of recommendation and a statement of teaching philosophy and career objectives to:

**Chairman, Microbiology Search Committee,  
College of Osteopathic Medicine of the Pacific,  
College Plaza  
Pomona, CA 91766**

*Affirmative Action/Equal Opportunity Employer.*

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### SENIOR RESEARCH SCIENTIST

Incumbent will perform animal dosage toxicology studies, analyze results, develop new analytical procedures, upgrade data acquisition and processing capabilities and train subordinates. Qualified candidates must possess a PhD in Biochemistry, Pharmacology or Toxicology with 2-5 years experience in analytical chemistry. Proficiency with HPLC, GLC and automated data processing is also vital.

The selected professional will be based at our Elkhart, Indiana facility and receive an attractive salary and benefits package. For confidential consideration, please send your resume to: **Ed Klimek, Sr. Personnel Representative, Dept. 406, Miles Inc., P.O. Box 40, Elkhart, Indiana 46515.**



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Equal Opportunity Employer M/F/D

### ASSISTANT PROFESSOR OF IMMUNOLOGY (Tenure Track)

**MEMORIAL UNIVERSITY OF NEWFOUNDLAND:** Immunologist, Assistant Professor. Applications are invited for a tenure track position in the Faculty of Medicine, Memorial University of Newfoundland, St. John's, Newfoundland. The applicant should have a Ph.D. degree with a proven research record in Immunology, preferably in **Molecular Immunology**, and with an interest in Autoimmunity. The applicant will be expected to attract external grant support and to collaborate with other members of the Immunology Group which currently consists of nine faculty from various divisions. The successful applicant will be expected to complement the existing immunological studies and to participate in teaching.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens or permanent residents of Canada. Memorial University is committed to the principles of employment equity and welcomes applications from all qualified candidates.

**Please quote reference #IM-1 in all correspondence.** Applications with a detailed curriculum vitae, the names and addresses of three references, and a brief statement of research interests should be submitted by February 15, 1993 to the Office of:

**Associate Dean  
of Basic Medical Sciences  
Faculty of Medicine  
Memorial University of Newfoundland  
St. John's, Newfoundland, Canada  
A1B 3V6**

### SENIOR SCIENTIST POSITIONS

Beckman Instruments has immediate opportunities for two PhD senior scientist level positions in the Analytical Business Unit:

#### Senior Scientist—Molecular Biology

The qualified individual will develop chemistries, reagents and methods for automated DNA sequencing and contribute to the development of analytical instruments and strategic approaches for the molecular biology market place. This individual will also interpret and recommend new technologies relative to the analysis of DNA.

**Requirements:** Knowledge of DNA sequencing and familiarity with laboratory automated systems; good analytical skills, familiarity with laboratory techniques such as cloning and amplification; experience with CE, HPLC, and Spectrophotometer instruments; strong oral and written skills; PhD in molecular biology, biochemistry, or related area.

#### Senior Scientist—Chemistry

This position will support our expanding DNA synthesis consumables business by developing chemistry methods and applications for our products, conducting test procedures for such products to insure quality, and interpret and recommend new technologies relative to DNA synthesis based on customer needs.

**Requirements:** Knowledge of automated synthesis of DNA with an understanding of chromatographic separation and identification of biomolecules; experience in HPLC, GC, and Capillary Gel Electrophoresis; working knowledge of scientific instrumentation (mechanical aptitude would be helpful); strong oral and written skills; PhD in analytical chemistry, organic synthesis, or biochemistry.

Please send your resume to: **G. A. Scott, D-27-A, Beckman Instruments, Inc., 2500 Harbor Boulevard, Fullerton, CA 92634-3100.** Principals only. *An Affirmative Action Employer.*

## POSITIONS OPEN

### PLANT BIOLOGISTS NATIONAL TAIWAN UNIVERSITY

Faculty positions will be available in 1993 in the Department of Botany, National Taiwan University, at the **ASSOCIATE** or **FULL PROFESSOR** level. Candidates with training in molecular genetics will be considered. *Chinese citizenship is not a prerequisite for application, but successful candidates must meet immigration requirements and are expected to teach in Mandarin.* Send curriculum vitae, statement of interest and plans in both research and teaching, list of publications, and two letters of recommendation to: **Professor Y. M. Chen, Chairman, Department of Botany, National Taiwan University, Taipei, Taiwan, Republic of China.** Review of applications will begin February 5, 1993.

**Geneticist. ASSISTANT PROFESSOR** for a tenure-track appointment to begin fall term 1993. Teaching responsibilities include courses in (a) genetics for biology majors, (b) human genetics, and (c) an advanced course in molecular genetics. Ph.D. required. Primary consideration given to individuals with a commitment to excellence in undergraduate teaching. Pursuit of funding to support a molecular genetics research program involving undergraduates expected. Send curriculum vitae, a brief statement of professional goals, and three letters of reference by March 1, 1993 to: **Dr. R. Lawrence Klotz, Genetics Search Committee, Department of Biological Sciences, State University of New York, P.O. Box 2000, Cortland, NY 13045.** SUNY Cortland is an *Affirmative Action/Equal Employment Opportunity Employer* and does not discriminate in employment or the provision of services on the basis of disability.

### ENVIRONMENTAL CONSERVATION SCIENCE LATIN AMERICA

The Nature Conservancy seeks **DIRECTOR** of Conservation Science and Stewardship to provide technical and administrative supervision of its Latin America Division's major parks protection program. This position is based in Arlington, Virginia with frequent travel to Latin America. Requirements include an advanced degree in the biological sciences, natural resource management or related field and at least 5 years of successful experience in Latin America or Caribbean in protected areas management. In addition, ability to manage multilateral projects and work in cross-cultural situations with a variety of people and institutions. Spanish/English required; Portuguese desired. Applications should be received by February 15, 1993. Send résumé and cover letter to: **Paul Martin, The Nature Conservancy, Department AL, 1815 North Lynn Street, Arlington, VA 22209.** *Equal Opportunity Employer.*

### BOSTON UNIVERSITY MEDICAL CENTER DEPARTMENT OF MEDICINE VICE-CHAIRMAN FOR RESEARCH

The Department of Medicine is reorganizing to expand and further integrate research and training programs at the School of Medicine and its principal hospitals (Boston City, University, Boston VA). The Department has 170 M.D. and Ph.D. faculty whose research spans areas from molecular biology to clinical trials. We are seeking a Vice-Chairman to develop new programs, foster interactive research, and expand research training. The Vice-Chairman should be a successful scientist, M.D. or Ph.D. with broad understanding of basic and clinical science and excellent leadership and interpersonal skills. The Vice-Chairman will have senior academic rank and facilities for continuation of a personal research program and/or clinical activity. Send curriculum vitae to: **Dr. Norman G. Levinsky, Chairman of Medicine, Boston University Medical Center, 88 East Newton Street, Boston, MA 02118.** *Boston University Medical Center is an Equal Opportunity Employer.*

**FOREST BIOLOGIST.** Permanent **FACULTY POSITION**, liberal arts college in Blue Ridge Mountains. Requires Ph.D., demonstrated teaching skill. Teach Forestry, General Biology, general education courses, and other courses depending on expertise (e.g., GIS/Remote Sensing, Conservation, Soil Science, Plant Propagation, Environmental Policy); manage 600-acre forest, supervise student research. Send letter, résumé, references to: **Dr. Spencer A. McWilliams, Vice President for Academic Affairs, Warren Wilson College, Swannanoa, NC 28778-2099** by January 30, 1993. *Minority and women applicants desired.*

## POSITIONS OPEN

### ASSISTANT DIRECTOR SCIENTIFIC SUPPORT SERVICES

Following considerable diversification and growth of its scientific research, the Smithsonian Tropical Research Institute (STRI) has recently reorganized its administration. The above position has been created to coordinate and oversee the running of all scientific facilities, marine and terrestrial, as well as to supervise all scientific support personnel. Units include 3 major laboratories; (1) Naos, (marine and molecular biology), (2) Barro Colorado Nature Monument (tropical forest research), and (3) Tupper Research and Conference Center (including the Center for Tropical Paleocology, the Center for Tropical Plant Eco-Physiology, and the Center for Tropical Forest Science). STRI has a permanent staff of 30 scientists, and about 400 visiting scholars, pre- and postdoctoral fellows, and students annually. Facilities include a tower crane for canopy research, a new 100-foot research vessel, state-of-the-art molecular biology and plant physiology laboratories and marine laboratories on both Pacific and Atlantic coasts. The selected person is expected to have considerable experience in the administration of a scientific research institute, a strong background in natural sciences, with at least a master's degree, and excellent interpersonal skills, to interact with a diverse array of scientific and administrative staff. The person selected will not have a personal research agenda but will be expected to participate in the discussions of STRI's advisory scientific council, and to translate decisions of the director and the council to the scientific support staff, and to oversee their implementation. The incumbent will be responsible for coordinating and defending a budget so that the scientific facilities are developed in response to scientific goals and planning. The position will be at the level of IS14 (salary range \$56,627 to \$73,619) and may include home leave, housing and educational allowances. Candidates should send curriculum vitae and the names of 3 references to: **Dr. Anthony G. Coates, Deputy Director, STRI Unit 0948, APO AA 34002-0948, USA.**

### DIRECTOR FOR THE CENTER FOR TROPICAL FOREST SCIENCE

The Center for Tropical Forest Science (CTFS) of the Smithsonian Tropical Research Institute is a collaborative and interdisciplinary program for natural and social science research into tropical forest ecology and management. Its main activities are: (1) linking permanent, intensive research sites in tropical forest ecology, management, economic value, and regeneration; (2) creating information exchange systems, including workshops, publications, and computer software, that enhance data collection, storage, and dissemination; (3) running a training program for forest scientists and managers from tropical countries; and (4) fostering communication of relevant research results to government officials setting tropical forest policy. The Center's program currently includes research sites and collaborating institutions in Panama, Bolivia, Malaysia, Thailand, India, and Sri Lanka.

The Center will hire a director to administer its programs from its headquarters in Panama City, Republic of Panama. The director's duties will include: (1) fund raising, including writing proposals and travelling to meet with funding organizations; (2) maintaining close ties with collaborating institutions; (3) stimulating new collaborations to initiate forest research in tropical countries; (4) overseeing the creation of a training program in tropical forest ecology, economics, and management aimed at students from tropical countries; (5) developing an interdisciplinary research program in tropical forest science; and (6) representing the CTFS before international organizations concerned with forestry policy and research. Applicants are expected to have demonstrated capacity for dynamic leadership, innovative research, strategic planning, effective administration and a comprehensive understanding of tropical forest biology. The position requires the ability to interact with international donor agencies, national government commercial organizations and universities. Salary will be between \$46,200 and \$54,600 according to experience, and may include home leave, housing and educational allowances.

Interested candidates should send a letter of interest and curriculum vitae to: **Dr. Ira Rubinoff, Director, STRI Unit 0948, APO AA 34002-0948, USA.**

**SCIENCE** recruitment ads reach thousands of scientists in all disciplines, worldwide. Classified Advertising telephone: 202-326-6555. FAX: 202-682-0816.

## POSITIONS OPEN

### FACULTY POSITION ANATOMY AND INTRODUCTORY BIOLOGY

The Department of Biology at Penn State invites applications for a fixed-term appointment, renewable annually for at least two years. We seek a person interested in teaching comparative anatomy, mammalian anatomy, and introductory biology starting August, 1993. Applicants should have a Ph.D. and evidence of strong teaching ability. Experience in teaching undergraduate students—majors and non-majors—is desired. Send curriculum vitae, statement of teaching and research plans, and three letters of reference to: **Dr. Linda Maxson, Department of Biology, Box CA, 208 Mueller Lab, Penn State University, University Park, PA 16802-5301.** Evaluations begin February 15, 1993 and continue until the position is filled. *An Affirmative Action/Equal Opportunity Employer. Woman and Minorities encouraged to apply.*

### PLANT ECOLOGIST

Applications are invited for a tenure-track **FACULTY POSITION** to be filled fall 1993. Applicants should be seeking a career at a teaching institution and should be prepared to teach a variety of courses in addition to courses in their area of expertise. An active research program involving both undergraduates and M.A.-level graduate students is also expected. Applicants must have a Ph.D. in Biological Sciences; postdoctoral experience is preferred. Applicants should send a letter of application (with curriculum vitae) and have three letters of reference forwarded to:

**Dr. Kal Kanungo  
Department of Biological and  
Environmental Sciences  
Western Connecticut State University  
Danbury, CT 06810**

Screening will begin immediately and continue until position is filled. *An Equal Opportunity/Affirmative Action Employer.*

**FACULTY POSITION; BIOPHYSICAL/BIO-CHEMICAL.** Ph.D. required (with strong background in Instrumental Analysis). Tenure-track for fall 1993. Rank and salary dependent upon qualifications. Excellence in teaching is emphasized and research strongly encouraged. Evidence of such must be submitted and also included in the three required letters of reference. Send complete curriculum vitae including transcripts and letters of reference to:

**Dr. Michael J. Uricheck, Chairperson  
Department of Chemistry  
Western Connecticut State University  
Danbury, CT 06810**

Screening will begin immediately and continue until position is filled. *An Equal Opportunity/Affirmative Action Employer.*

**INORGANIC CHEMISTRY—AMHERST COLLEGE.** A full-time tenured or tenure-track **FACULTY POSITION** is available for a Ph.D. inorganic chemist beginning in July, 1993. The rank for this position is open, although applications at the assistant professor level are preferred. The successful candidate will be expected to teach introductory chemistry as well as inorganic chemistry at the advanced undergraduate level, and will have the opportunity to participate in interdisciplinary teaching. She/he will also be expected to establish a vigorous research program in which undergraduates can substantively participate. Applicants should submit detailed curriculum vitae, a description of their teaching and research plans, and the names of three references to: **Dr. J. N. Kushick, Chairman, Department of Chemistry, Amherst College, Amherst, MA 01002,** by February 1, 1993, and should arrange to have their letters of reference sent to the same address. *Amherst College is an Affirmative Action/Equal Opportunity Employer and especially welcomes applications from women, minority, and disabled candidates.*

**INSTRUCTOR,** Physiology/Anatomy/Pathology, college-level. Must have minimum of a Master's degree in related field. Full-time, part-time positions available beginning January 4, 1993. Send letter of application and curriculum vitae to: **Life Chiropractic College West, 2005 Via Barrett, San Lorenzo, CA 94580.** Attention: Personnel Department.

# Staff Position In Immunology.

A tenure-track position is available for an individual to develop an independent research program as part of a team of investigators interested in lymphoid cell development at a molecular level and the nature of immunodeficiency disorders. Space, resources and salary are committed. Applicants must be US citizens or permanent residents and have post-doctoral training in relevant disciplines. To apply, please send a statement of personal goals, *curriculum vitae*, and names of references to Dr. Stephen E. Straus, Laboratory of Clinical Investigation.

## National Institute Of Allergy And Infectious Diseases

National Institutes Of Health  
9000 Rockville Pike, Building 10, Room 11N228  
Bethesda, MD 20892  
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**SEI** STOCKHOLM  
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INSTITUTE

International Institute for Environmental Technology and Management

### Executive Secretary

#### BIOTECHNOLOGY ADVISORY COMMISSION

The Stockholm Environment Institute recently established a Biotechnology Advisory Commission (BAC) consisting of eminent international experts in the field of biotechnological applications and related environmental safety issues. The BAC is to advise on the potential risks and benefits that are expected to result from the introduction to a country of genetically modified organisms, taking into account evolving international codes of conduct.

*Applications are invited* from scientists with a doctoral qualification or equivalent, and with outstanding skills relating to the assessment of the impact of biotechnology, especially as applied to developing countries, for the post of *Executive Secretary*, the chief, full-time executive officer of the BAC. Applicants should have experience in evolving safety guidelines and also possess a knowledge of risk assessment procedures. This challenging position will involve the exercise of proven planning and management skills. The post is based in Stockholm. The salary and related benefits will be at a level commensurate with the proven level of experience and skills required for this post and, together with the period of appointment, is negotiable.

Applications, accompanied by a full *curriculum vitae* indicating the names of three persons to whom reference may be made, and indications of the salary expectation, should be sent by 29 January, 1993 to **The Director, Stockholm Environment Institute, Box 2142, S-10314 Stockholm, Sweden**, from whom further particulars are available.

*The Stockholm Environment Institute is an international institute with its headquarters in Stockholm and centres in Boston (USA), York (UK) and Tallinn (Estonia). It carries out research on issues linking environment and development with the aim of elucidating policy options in this area. It has a staff of over 50.*

Senior Occupational Toxicologist

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Du Pont Merck employs the best professionals in the industry who work with the best technology. That's how we'll continue and reach our goal to be at the leading edge of science—bringing novel solutions to major unmet medical needs.

We currently have an exciting and challenging position for a scientist to perform occupational hazard assessments for inclusion in hazard communication documents (MSDS) and for establishment of exposure limits for materials in the workplace. In addition, you will monitor hazard studies, technically review hazard study reports, and perform determinations of toxicologic maximally acceptable concentrations of residuals in products.

The successful candidate will have a PhD in Pharmacology or Toxicology and 2-5 years of pharmaceutical and/or industrial toxicology experience, including experience in human risk assessment. An understanding of practical safety issues is necessary, as well as the willingness to review safety data to ensure accuracy and appropriateness.

We can offer the successful candidate a highly stimulating scientific environment, a competitive salary, and a comprehensive benefits package. For immediate consideration, please forward your resume, including salary history and requirements, to: Excalibur Human Resources, Dept. TOX-SCI, P.O. Box 2249, Princeton, NJ 08543. No phone calls please. An Equal Opportunity Employer M/F/H/V.

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## POSITIONS OPEN

A **POSTDOCTORAL POSITION** is available to study the role of specific nuclear proteins in the responses of mammalian cells to ionizing radiation. The interests of our laboratory include investigations of the role of certain nuclear proteins in cell cycle checkpoints, the control of DNA supercoiling, and in the architecture of DNA domains defined by DNA-nuclear matrix anchor points. Experience in protein purification/characterization and mammalian cell culture is highly desirable. Experience with flow cytometry and immunohistochemical techniques would also be advantageous. Send a statement of research interests, curriculum vitae and three letters of reference to: **J. L. Roti Roti, Ph.D., Washington University School of Medicine, Mallinckrodt Institute of Radiology, Radiation Oncology Center, Section of Cancer Biology, 4511 Forest Park Boulevard, St. Louis, MO 63108.**

**POSTDOCTORAL POSITION** available immediately to study the cellular uptake and trafficking of fluorescent-labeled phospholipids. Fluorescence microscopy and spectroscopy are combined with biochemical and genetic approaches to identify the proteins that regulate these processes. Model systems currently in use include *S. cerevisiae* and the rabbit intestine brush border. Send curriculum vitae and the names of three references to: **J. Wylie Nichols, Ph.D., Department of Physiology, Emory University School of Medicine, Atlanta, GA 30322.**

### POSTDOCTORAL POSITIONS

A new research/training grant supported by the Flinn Foundation will commence January 1, 1993. Postdoctoral candidates are being recruited to participate in the research programs of James R. Bloedel and George E. Stelmach. Research will focus on motor control deficits in patients with Parkinson and cerebellar disorders, sensorimotor impairments in the elderly, and adaptive characteristics of motor coordination and motor learning. Send a letter of interest, curriculum vitae, and names, addresses and telephone numbers of three references to: **George E. Stelmach, Exercise and Sport Research Institute, Arizona State University, Tempe, AZ 85287-0404. Telephone: 602-965-9847, FAX: 602-965-8108, email: Stelmach@ESPEI.LA.ASU.EDU.**

**POSTDOCTORAL POSITION** available to study mechanisms of mesenchymal cell migration through extracellular matrix. Previous experience with fluorescence microscopy, microinjection, and videointensification is essential. There will be an opportunity also to study epithelial-mesenchymal transformation in embryos and in culture, and to learn electron microscopy and molecular biology methods. Send curriculum vitae to: **Dr. Elizabeth Hay, Department of Anatomy and Cellular Biology, Harvard Medical School, 220 Longwood Avenue, Boston, MA 02115.**

**POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY.** Full-time position available immediately to study the regulation and role of the fatty acid cytochrome P450 gene family in carcinogenesis, signal transduction, and human disease. Experience in molecular biology is necessary. Salary is competitive and fringe benefits include medical insurance and retirement. Submit curriculum vitae, letters of recommendation and research papers to: **Office of Human Resources, c/o Dr. James P. Hardwick, Northeastern Ohio Universities College of Medicine, P.O. Box 95, Rootstown, OH 44272. An Equal Opportunity/Affirmative Action Employer.**

### INSECT MOLECULAR VIROLOGY

An NIH-funded **POSTDOCTORAL POSITION** is available immediately to study the molecular biology of polydnaviruses. The mechanisms through which polydnaviruses replicate asymptotically in a vector insect and alter growth, development and immunity in a target insect will be investigated. Experience in molecular biology and/or protein biochemistry desirable. Send curriculum vitae and names of three references to: **Dr. Bruce Webb, Department of Entomology, Rutgers University, New Brunswick, NJ 08903-0231. FAX: (908) 932-7229.**

**SCIENCE** recruitment ads reach thousands of scientists in all disciplines, worldwide. Classified Advertising telephone: 202-326-6555. FAX: 202-682-0816.

## POSITIONS OPEN

**POSTDOCTORAL POSITION IN MOLECULAR VIROLOGY** available immediately to study vesicular stomatitis and measles virus polymerase functions and regulation by phosphorylation. Applicants should have a strong background in molecular techniques and/or protein phosphorylation. Please send or FAX: (619-594-5676) cover letter, curriculum vitae, and three references to: **Dr. Jacques Perrault, Molecular Biology Institute, San Diego State University, San Diego, CA 92182. Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** will be available February 15, 1993 to study the genetics of the solvent-producing clostridia. Ph.D. in Biochemistry, Microbiology, Food Science, or related field; experience with recombinant DNA and anaerobic bacteria is desirable. Applicants should submit curriculum vitae and the names of three references to: **Dr. Hans P. Blaschek, Department of Food Science, University of Illinois, 580 Bevier Hall, 905 South Goodwin Avenue, Urbana, IL 61801 by January 30, 1993. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available to study hormonal and cytokine regulation of plasminogen activator and plasminogen activator inhibitor gene expression in human and rat hepatocytes and hepatoma cells. Molecular biology experience is required. Send curriculum vitae, statement of research interests, and names of three references to: **Dr. Thomas Gelehrter, Department of Human Genetics, Box 0618, University of Michigan Medical School, Ann Arbor, MI 48109-0618. Equal Opportunity/Affirmative Action Employer.**

**Ph.D.—POSTDOCTORAL POSITION** is available in the Division of Gastroenterology. Primary focus of research is the study of mechanisms and control of epithelial and muscle function in animal models of inflammatory bowel disease. Candidate should have a Ph.D. with a background related to inflammatory and/or neural control of epithelium. The position is funded for at least two years. Send curriculum vitae and the names of three references to: **GI Research, Human Resources Department, Winthrop-University Hospital, 259 First Street, Mineola, LI, NY 11501. Equal Opportunity Employer M/F/D/V.**

**POSTDOCTORAL POSITIONS.** Applications are invited for positions in a multidisciplinary research group (P. G. C. Campbell; R. Carignan; L. Hare; A. Tessier) studying the biogeochemistry of metals in the freshwater environment. Current research topics include metal speciation, exchange processes at the sediment-water interface, metal accumulation by benthic organisms, and metal detoxification mechanisms (metallothioneins; phytochelatin).

Applicants with a recent Ph.D. in such fields as environmental analytical chemistry, geochemistry, biochemistry, aquatic biology or toxicology should send their résumé, university transcript(s) and names of three references to the group coordinator: **Dr. P. G. C. Campbell, Université du Québec, INRS-Eau, C.P. 7500, Ste-Foy, Québec, Canada G1V 4C7.**

**POSTDOCTORAL POSITIONS** available to study (1) regulation of the expression of genes related to fatty acid and phospholipid synthesis in developing fetal lung and (2) signal transduction mechanisms in the regulation of lung surfactant secretion in cultured type II pneumocytes. Send curriculum vitae and names of three references to: **Dr. Seamus A. Rooney, Department of Pediatrics, Yale University, P.O. Box 3333, New Haven, CT 06510.**

**POSTDOCTORAL POSITION** in structural studies of catalytic RNAs and regulatory RNAs. Solvent-based chemistries and photochemical crosslinking reagents are used to study the folded conformation of Group I intervening sequences and the RNA subunit of Ribonuclease P enzymes as catalytic RNAs and of HIV-I rev-responsive element RNA as a regulatory RNA. Experience in photochemistry or nucleic acid biochemistry preferred. Send curriculum vitae and three letters of reference to: **Daniel Celerander, Ph.D., Department of Microbiology, University of Illinois, 407 South Goodwin Avenue, Room 131, Urbana, IL 61801.**

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available immediately to identify and characterize membrane proteins involved in formation and regulation of tight junctions by epithelial cells. Techniques to include labeling and/or crosslinking of membrane proteins, iso-electric focussing, polyacrylamide gel electrophoresis, immunochemistry, membrane isolation, cell culture. Some experience in molecular biology desirable. Send résumé and names of three references to: **Dr. Eveline E. Schneeberger, Pathology Department, Cox Building 5, Massachusetts General Hospital, Boston, MA 02114. Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available to investigate mechanical, biochemical, and physiological aspects of smooth muscle contraction. Studies include isolated contractile proteins, detergent and alpha-toxin permeabilized fibers, and intact tissues to examine  $Ca^{2+}$  dependent regulation of contraction and G-protein dependent signal transduction pathways. Experience in muscle research desirable but not necessary. Please send curriculum vitae and names, addresses, and telephone numbers of three references to: **Dr. Robert S. Moreland, Bockus Research Institute, Graduate Hospital, 415 South 19th Street, Philadelphia, PA 19146.**

**AIDS RESEARCH TRAINING**—Postdoctoral research training at Case Western Reserve University (CWRU) is available for qualified Ph.D. and M.D. applicants. Areas of research include molecular retrovirology (HIV-1, HTLV-1), mycobacterial diseases, and epidemiology of HIV infection in Uganda. U.S. citizenship or permanent residency required. For information, write to: **Debbie Ferrato, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4984. CWRU is an Equal Opportunity/Affirmative Action Employer. Applications are encouraged from women and minority candidates.**

### YALE UNIVERSITY SCHOOL OF MEDICINE POSTDOCTORAL POSITIONS IN IMMUNOBIOLOGY

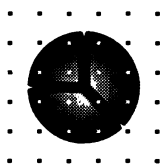
The section of Immunobiology headed by R. A. Flavell includes A. Bothwell, K. Bottomly, P. Cresswell, I. N. Crispe, A. Hayday, C. A. Janeway, Jr., P. Kavathas, J. S. Pober, N. Ruddle, D. Schatz, and R. Tigelaar. Postdoctoral positions in antigen processing, T and B cell development and gene regulation recognition, activation, function, cytokines, site-specific recombination, and disease related research in autoimmunity, Lyme disease, and AIDS are available. Please send curriculum vitae, statement of interest and three letters of reference to: **Terrill Moorehouse, Administrator, Section of Immunobiology, 310 Cedar Street, P.O. Box 3333, New Haven, CT 06510. Yale University is an Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available immediately for a molecular biologist or biochemist to study the assembly and function of the yeast (*Saccharomyces cerevisiae*) spliceosome. Research will involve the use of genetic and biochemical techniques to identify and characterize novel splicing factors. Experience with yeast genetics, gene cloning, and protein purification is preferred. Send curriculum vitae and the names of three references to: **Dr. Brian C. Rymond, T. H. Morgan School of Biological Sciences, University of Kentucky, Lexington, KY 40506-0225. Equal Opportunity Employer.**

### POSTDOCTORAL POSITION MOLECULAR VIROLOGY

A position is available to study the molecular pathogenesis of influenza virus. The research involves the elucidation of the role of an HA cleavage enzyme for the pathogenesis of influenza. The candidate will receive training in state-of-the-art molecular and immunobiological techniques including *reverse genetics* that are being used to address this question. Interested individuals should send curriculum vitae and the names of three references to: **Dr. Yoshihiro Kawaoka, Department of Virology and Molecular Biology, St. Jude Children's Research Hospital, 332 North Lauderdale, P.O. Box 318, Memphis, TN 38101-0318. An Equal Opportunity/Affirmative Action Employer.**





## The Immune Response Corporation

THE IMMUNE RESPONSE CORPORATION has a postdoctoral position available to study T cell immunoregulation in Autoimmune Disease at our suburban San Diego R&D facility. Experience in cellular immunology and/or molecular biology is desired.

Interested candidates should forward their curriculum vitae to:

**Chief Scientific Officer  
The Immune Response Corporation  
5935 Darwin Court  
Carlsbad, CA 92008  
Ref: Postdoctoral Fellow**

**EQUAL OPPORTUNITY EMPLOYER**

## Wood Technologist

**\$A46,000 - \$A50,000 + Superannuation**

*Division of Forest Products,  
Melbourne, Victoria, Australia*

The Division of Forest Products conducts research and development on the efficient use of wood resources, and on environmentally improved practices. Much of its work is carried out in collaboration with the forest products industry.

We are currently seeking an applied scientist/technologist with a sound knowledge of wood structure and its mechanical properties. Research experience in timber utilisation and a knowledge of the veneer and plywood industries is required.

The principle aim of the successful applicant will be to work on the value-added utilisation of Australian hardwoods and softwoods. A postgraduate degree in wood technology, together with a good working knowledge of the veneer and panel industry is essential.

This challenging position will require close liaison and collaboration with both divisional and industry personnel. Strong interpersonal and communicative skills are necessary.

Selection criteria and a duty statement may be obtained from: Ms Maria Germano Ph: +613 542 2217 Fax: +613 543 6613.

Please send applications addressing the selection criteria and including details of your qualifications and experience and the names of two referees to: **The Personnel Manager, CSIRO Division of Forest Products, Private Bag No 10, Clayton Victoria 3168, Australia** by February 19th, 1993.



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**January 25, 1993  
10 am - 2 pm & 3 pm - 7 pm**

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Make every effort to attend biotechnology's biggest career event! A unique revolution has been underway which makes the job search process more efficient for job candidates and more effective for employers. With the introduction of Biotech '93, the job fair exclusively for biotechnology professionals, job applicants can interview decision makers for hundreds of positions nationwide at one time and in one place. You conduct an entire job search in one day saving you time, effort, and money.

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*All interviewing for hundreds of positions including:*  
Postdoctoral fellows • Scientists • Chemical and Manufacturing Engineers • Technicians • Positions in Distribution • Quality Assurance • Process Development and Formulation • Toxicologists • Chemists • Biologists • Hazardous Waste Professionals • Sr. Research Assistant • Sr. Research Associates • Research Associates • Sr. Research Scientist • Sr. Scientist / Project Manager • Clinical Data Associates • Sr. Regulatory Associate • Technical Support Associate • Quality Control Manager • Director, Data Management • SAS Programmers • Programmer / Analyst • and many others!

If you can't attend in person, be sure to mail or fax your resume for distribution to all participating companies and receive *The Participant's Guide* to available company positions: **The Lendman Group, Biotech '93, 5500 Greenwich Rd., Va. Beach, VA 23462. Fax: (804) 473-2416, attn: Biotech '93 Job Fair Coordinator.**

Special hotel rates available. Contact Diane Nunes: (804) 473-2400

### Employers:

Limited space available to recruit at Biotech '93. Call Fausto Molinet (603) 894-4139 or Ernie Lendman or Steve Campbell (804) 473-2400 for details.

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS

Gladstone Institute of Cardiovascular Disease, University of California, San Francisco. In the laboratories of: **Thomas L. Innerarity, Ph.D.:** Research on apo B RNA editing and mutations of apo B that disrupt LDL receptor binding.

**José A. López, M.D.:** The project will involve studies of the platelet proteins involved in adhesion of platelets to the blood vessel wall. Mutagenesis to study the synthesis and ligand-binding functions of the platelet GP Ib-IX complex.

**Karl H. Weisgraber, Ph.D.:** (two positions) (1) Studies on the effect of overexpression of human genes on lipoprotein metabolism in transgenic mice. (2) X-ray crystallography of apolipoprotein E variants and other proteins involved in lipoprotein metabolism. Prior experience in protein crystallography desired.

Candidates should possess a Ph.D. in molecular biology or biochemistry. Competitive salary and benefits. Send curriculum vitae and names of three references to: **Postdoctoral Recruitment/Human Resources; The Gladstone Institute of Cardiovascular Disease, University of California, San Francisco; P.O. Box 419100, San Francisco, CA 94141-9100. Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available immediately to study the pathomechanisms of drug-induced connective tissue pathology. Experience in cell biology and/or immunology essential. Send curriculum vitae and three references to: **Dr. Arthur F. Hefti, Department of Periodontology, University of Florida College of Dentistry, P.O. Box 100434, Gainesville, FL 32610. University of Florida is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** available immediately to study molecular genetics of membrane transporters and receptors in the parasitic protozoan *Leishmania*. Research involves analysis of structure, function, membrane targeting, signal transduction, and developmentally regulated gene expression. Background in molecular biology or biochemistry desirable. Send curriculum vitae and names of three references to: **Dr. Scott Landfear, Department of Microbiology and Immunology, the Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201. An Affirmative Action/Equal Opportunity Employer.**

### OPENINGS FOR SCIENTISTS

The Weizmann Institute of Science is now offering a limited number of temporary appointments to the position of Scientist.

Candidates must have completed two years of postdoctoral work.

Appointments will be made in all the areas of scientific research at the Institute.

<b>BIOLOGY</b>	<b>PHYSICS</b>
<b>CHEMISTRY</b>	<b>MATHEMATICS</b>
<b>BIOCHEMISTRY-BIOPHYSICS</b>	<b>SCIENCE TEACHING</b>

Appointments are for a period of one year, however, they may be extended for a period not to exceed 5 years from receipt of Ph.D. degree (or equivalent). Successful appointees will be eligible to apply for promotion to the position of Senior Scientist.

Financial remuneration for a Scientist is at the level of Lecturer and includes all of the associated benefits. In addition, a relocation stipend is provided.

Application forms and additional information may be obtained from:

**The Feinberg Graduate School  
The Weizmann Institute of Science  
Rehovot, 76100 Israel**

Applications are reviewed twice each year: January 1 and May 15.

**POSTDOCTORAL POSITION**—Available immediately to study the role of cell adhesion molecules in human reproduction. Individual will participate in research involving the characterization of integrin expression in the female reproductive tract. A background in molecular biology required and an interest in reproductive physiology preferred. Send curriculum vitae, a brief statement of research interests and the names of three references to: **Bruce A. Lessey, M.D., Ph.D., Department of Obstetrics and Gynecology, Division of Reproductive Biology, 422 Curie Boulevard, University of Pennsylvania, Philadelphia, PA 19104.**

## POSITIONS OPEN

**POSTDOCTORAL FELLOWSHIPS: ENDOCRINOLOGY.** Two/three-year research program in molecular endocrinology and reproductive biology, serving as a focal point for NIH and WHO Research Centers. Research areas: regulation of inhibin/activin related genes, stem cell factor gene and other specific genes in the testis; molecular basis of infertility; modulation of androgen receptor expression and tissue growth in penile smooth muscle; nitric oxide synthase in penile erectile dysfunction; and others. Ph.D.'s with a strong background in molecular biology are encouraged to apply. *U.S. citizenship or permanent residence.* Available immediately. **R. S. Swerdloff, M.D., Harbor-UCLA Medical Center, 1000 West Carson Street, Torrance, CA 90509. Telephone: (310) 222-1867.**

**POSTDOCTORAL FELLOW.** Position available immediately in Department of Pathology. Involves production of cytokines with emphasis on studies to determine role and interaction of various cytokines in enhancement of immune response. Strong background in immunology/biochemistry of cytokines and interest in molecular biology are desired. Send curriculum vitae plus 3 references to: **Dr. N. M. Kouttab, Department of Pathology, Roger Williams Medical Center, 825 Chalkstone Avenue, Providence, RI 02908.**

### POSTDOCTORAL FELLOWSHIPS

The Feinberg Graduate School of the Weizmann Institute of Science is now offering Postdoctoral Fellowships in the following fields of study:

<b>BIOLOGY</b>	<b>PHYSICS</b>
<b>CHEMISTRY</b>	<b>MATHEMATICS</b>
<b>BIOCHEMISTRY-BIOPHYSICS</b>	<b>SCIENCE TEACHING</b>

These Fellowships are intended for young scientists who have recently received a Ph.D. degree.

The fellowship provides a 12-month stipend (with COL adjustments), a relocation allowance and airfare to Israel. If the Fellowship is renewed for a second year, return airfare is provided.

Application forms and additional information may be obtained from:

**The Feinberg Graduate School  
The Weizmann Institute of Science  
Rehovot, 76100 Israel**

Applications are reviewed twice each year: January 1 and May 15.

**GRADUATE ASSISTANTSHIPS IN MOLECULAR BIOLOGY, BIOCHEMISTRY AND BIOPHYSICS.** Several positions are available in the Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, Connecticut. Departmental research interests emphasize regulation of gene expression in embryogenesis and development; heat-shock response and cellular regulation of iron metabolism; biophysics of protein-nucleic acid interactions; tissue differentiation and regulation of collagen gene expression; molecular genetics and regulation of protein secretion; DNA replication; structure and function of chromosomal proteins; yeast genes homologous to protein kinase oncogenes; mechanisms of action of thiamine and ascorbic acid; nuclear magnetic resonance spectroscopy and computer modeling. All students receive 12-month stipends, tuition remission, good fringe benefits and dependency allowance, if applicable. Opportunities to teach. Write: **Director of Graduate Admissions, Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, CT 06459-0175 or call (203) 344-8544 Extension 2796.**

The Department of Anesthesiology is recruiting an **ASSISTANT in RESEARCH** who will provide technical assistance for experimental research. Must hold a baccalaureate degree in biological or medical sciences. Must have a minimum of one year of experience in anesthesiology research. Salary range is \$28,000 to \$35,000. Application deadline is January 28, 1993. This is a non-tenure-earning position. Please send letter, curriculum vitae, and 3 letters of reference to: **Robert A. Smith, M.S., Department of Anesthesiology, University of South Florida, 12901 Bruce B. Downs Boulevard, MDC 59, Tampa, FL 33612-4799. USF is an Equal Employment Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

**PREDOCTORAL TRAINING IN NEUROSCIENCE**  
**INTERDISCIPLINARY Ph.D. PROGRAM IN NEUROSCIENCE**  
**Louisiana State University Medical Center  
School of Medicine  
New Orleans**

Applications are being accepted for the newly created interdisciplinary Ph.D. Training Program in Neuroscience. Intensive training in neuroscience provided by this program reflects the breadth of research programs of the faculty, which spans both behavioral neuroscience and molecular neurobiology, ranging from genes, to cells, to human behavior. Generous stipend support is available on a competitive basis. Highly qualified individuals should send inquiries to: **Nicolas G. Bazan, M.D., Ph.D. or R. Ranney Mize, Ph.D., Co-Directors of the Interdisciplinary Ph.D. Program, c/o LSU Neuroscience Center of Excellence, 2020 Gravier Street, Suite B, New Orleans, LA 70112; FAX: (504) 568-5801. Equal Opportunity/Affirmative Action Employer.**

### CELL AND MOLECULAR BIOLOGY OF AGING POSTDOCTORAL RESEARCH TRAINING

Positions are available for postdoctoral trainees in cell and molecular biology of aging at Baylor College of Medicine. This interdisciplinary program offers traineeships in the laboratories of: **Drs. Julius Allen, Stanley Appel, Eugene Barnes, Gretchen Darlington, Stephen Elledge, Peter Hornsby, Russell Lebovitz, Dorothy Lewis, Gregory May, Bert O'Malley, Olivia Pereira-Smith, Robert Schwartz, and James Smith.** Research emphasis is on the regulation of gene transcription and expression in normal and aged cells; the role of calcium in cell proliferation; receptor and ion channel alterations in aging; and the study of genes involved in the genetic program of mortality and alterations in DNA synthesis which occur in aging cells. *Applicants must be citizens of the United States.* Send curriculum vitae and three reference letters to: **Dr. G. J. Darlington, Huffington Center on Aging, Room M-320, Baylor College of Medicine, Houston, TX 77030.**

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

**POSTDOCTORAL RESEARCH FELLOW IN SPORTS MEDICINE:** Opportunity to develop chromatography and mass spectrometry skills in the study of anabolic steroid and anti-catabolic drug pharmacokinetics and pharmacodynamics. Research lab is affiliated with IOC- and CAP FUDT-accredited laboratory. A Ph.D. in analytical, organic, or biological chemistry required. Previous experience in HPLC, GC, or isolation of drugs from cell culture and biological fluids preferred. Send curriculum vitae, a brief summary of research interests and experience, and the names, addresses, and telephone numbers of three references to: **L. D. Bowers, Sports Medicine Drug Identification Laboratory, Department of Pathology, Indiana University School of Medicine, 635 Barnhill Drive, Indianapolis, IN 46202-5210. Indiana University is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL RESEARCH ASSOCIATES:** Recent Ph.D. experienced in molecular/cell biology and biochemistry to study (1) expression of PKC isozymes in differentiation and mitosis (mitotic arrest) of leukemia cells and in ontogeny and pathophysiology of heart, (2) identification of new, functionally relevant PKC substrates, and (3) site-directed mutagenesis of PKC phosphorylation sites in proteins such as troponins I and T. Send application to: **Dr. J. F. Kuo, Department of Pharmacology, Emory University School of Medicine, Atlanta, GA 30322. Emory University is an Affirmative Action/Equal Opportunity Employer.**

### POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS

Postdoctoral/Research Associate Positions available immediately for study and training in cellular or molecular biology relating to gene expression. Preference will be given to applicants with Ph.D. and prior experience in microscale protein purification or functional analysis of transcription factors. Send applications to: **David Stiles, Molecular and Cellular Section, School of Biological Sciences, Lexington, KY 40506. An Equal Opportunity/Affirmative Action Employer.**

**PROVOST**  
**University of Health Sciences**  
**The Chicago Medical School**

The University of Health Sciences/The Chicago Medical School invites nominations and applications for Provost. The Provost is the Chief Academic Officer with responsibility for the development and administration of all academic and professional programs within the University comprising: The Chicago Medical School, the School of Graduate and Post-doctoral Studies, and the School of Related Health Sciences. The Provost works in close collaboration with the Executive Vice President and is directly responsible to the Board of Trustees.

The University is located in modern facilities in a pleasant suburban environment on the North Shore. Approximately 300 faculty, 200 graduate students, 30 postdoctoral trainees, 130 allied health students, and 600 medical students participate in the institution. In addition to the medical degree, the University offers masters' and doctoral degrees in a range of scientific fields and baccalaureate degrees in a variety of allied health specialties.

The individual selected must have a demonstrably strong commitment to excellence in education, research, and clinical medicine. Experience in the development of effective clinical practice programs is essential. Additional qualifications include: an MD degree, a record of academic achievement, administrative leadership experience in medical education, strong management and interpersonal skills, and clinical experience with community and university hospitals or clinics.

Nominations and applications should be submitted to: **Richard Hawkins, Ph.D., Chair, Search Committee for the Provost, University of Health Sciences/The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064.**

University of Health Sciences/  
The Chicago Medical School is an  
Equal Opportunity, Affirmative Action Employer.

**THE UNIVERSITY OF MELBOURNE**  
**Australia**

**CHAIR OF PHYSIOLOGY**

Applications are invited for appointment to this Chair which became vacant at the end of 1992 following the transfer of Professor John Furness to become Professor and Head of the Department of Anatomy and Cell Biology.

The new professor will be expected to provide leadership in teaching and research in a branch of biological or medical science relevant to the broad field of physiology.

Salary: A\$77,900 per annum to which is added a superannuable pre-clinical loading salary differential of A\$6,751 per annum for a medically qualified appointee.

Further information about the position, including details of the structure and academic functions of the Department, application procedure, superannuation, travel and removal expenses, housing assistance and conditions of appointment is available from Appointments (41277B), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, UK; or from the Registrar. All correspondence (marked "Personal and Confidential") should be addressed to the **Registrar, The University of Melbourne, Parkville, Victoria 3052, Australia, tel. (61 3) 344 5003 (Mr. T. O'Neill); fax (61 3) 344 6897.**

The Council reserves to itself the right to make no appointment or to fill the chair by invitation at any stage.

Applications close on **26 March 1993.**

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**NATIONAL INSTITUTE OF ALLERGY  
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NATIONAL INSTITUTES OF HEALTH**

**POST- DOCTORAL FELLOWSHIP**

**SCRAPIE/ PRION PROTEIN/ NEURODEGENERATIVE DISEASE.** A postdoctoral fellowship is available to study the biochemistry and cell biology of scrapie-associated prion protein accumulation as a model of neurodegenerative amyloidosis. The current research focuses on the mechanism of action of recently identified inhibitors of amyloidogenic prion protein accumulation in cell culture. These studies should suggest therapeutic strategies for treating transmissible spongiform encephalopathies (TSE) and other amyloidoses such as Alzheimer's diseases.

This effort will be part of broad-based departmental studies of neurodegenerative diseases resulting from infections by TSE agents and viruses such as HIV, rabies and neurotropic murine retroviruses.

The preferred candidate will have a doctorate and background in one or more of the following: protein biochemistry, ligand binding studies, intracellular membrane trafficking, conformational analysis, glycosaminoglycans, the TSE field. Salary range: \$25,000-35,000 per year.

To apply send curriculum vitae, or for further information, call or write to:

**Byron Caughey, Ph.D.**  
**Laboratory of Persistent Viral**  
**Diseases**  
**National Institute of Allergy &**  
**Infectious Diseases**  
**National Institutes of Health**  
**Rocky Mountain Laboratories**  
**Hamilton, MT 59840**  
**Telephone: (406) 363-3211**



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## POSITIONS OPEN

### RESEARCH PROGRAM IN THE GENETICS OF COMMON DISEASES

The Division of Human Molecular Genetics at New York Medical College is devoted to the clinical identification and molecular characterization of genes that predispose to cancer, psychiatric illness, diabetes mellitus, and other common diseases. Faculty positions and traineeships are available now for molecular biologists, epidemiologists, geneticists, clinicians, and others to participate in this established program. Candidates must have an outstanding academic/research background. Current projects include cloning the ataxia-telangiectasia gene and characterizing its expression; identifying the environmental factors that interact with the ataxia-telangiectasia gene to produce cancers; mapping and cloning the Wolfram syndrome gene; determining the type of mental illness associated with the Wolfram syndrome gene; and investigating specific genes implicated in psychiatric illness, alcoholism, obesity, or hypertension. Entry into new program areas will be determined by the interests of the faculty and trainees.

Inquiries to: **Michael Swift, M.D., Director, Human Molecular Genetics, New York Medical College, 100 Grasslands Road, Elmsford, NY 10523, FAX: (914) 592-2275.**



The USDA, Agricultural Research Service, is seeking applications for a **RESEARCH ASSOCIATE** position, Microbiologist/Immunologist, for the National Animal Disease Center, Virology-Swine Research Unit, Ames, Iowa. The position is temporary, full-time to study functional domains on viral glycoproteins by recombination and deletion mutant analysis. The hosts' immune response to naive and altered glycoproteins also will be investigated. (Ph.D. is required.) Salary is commensurate with experience (\$33,623 to \$40,298). For information on the research program and position, contact: **Dr. Ronald Wesley at (515) 239-8305.** For information on application procedures/forms, contact: **Alice MacNamara at (301) 344-1858.** Applications in response to this advertisement should be marked **3N009** and sent to: **Dr. Wesley at the National Animal Disease Center, P.O. Box 70, Ames, IA 50010.** Applications must be postmarked by April 1, 1993. *ARS is an Equal Opportunity Employer.*

### RESEARCH ASSOCIATE PEDIATRIC CANCER RESEARCH LAB

Full-time position. Will develop and monitor all procedures and protocols for the flow cytometer. Prepare all samples and perform all procedures on the flow cytometer. Maintain tissue culture cell lines; tabulate, analyze, organize data for presentation and publication. Must be certified or eligible for certification in flow cytometry; thorough knowledge of monoclonal antibody staining and sorting techniques. Master's degree in a biological science and 5 or more years of research in immunology, extensive knowledge in tissue cultures; experience in radioisotopes desired.

### RESEARCH ASSOCIATE IN TRAINING PEDIATRIC CANCER RESEARCH LAB

Full-time temporary position (18 months). Will learn all technical aspects involved in pediatric cancer research, including literature searches for relevant techniques of current research, design and protocols for all assays in the section, maintain tissue culture cell lines, oversee the results for presentation to co-investigators. Will be trained in the current techniques of tissue culture, molecular biology, immunology and cell biology as they relate to the cellular and molecular aspects of pediatric hematology and oncology. Ph.D. or M.D. degree (granted within the previous two years) in biological sciences with emphasis in immunology, cell biology, molecular biology or microbiology.

Please send résumé and salary history to: **Childrens Hospital of Orange County, 455 South Main Street, Orange, CA 92668-3874, Attention: Personnel.**

**SCIENCE** welcomes placement of line classified ads by FAX. Please include name and telephone number for our confirmation call when transmitting ad to:

**FAX NUMBER: 202-682-0816**

## POSITIONS OPEN

**POSTDOCTORAL RESEARCH SCIENTIST—MOLECULAR BIOLOGY OF HEMATOPOIESIS.** Available January, 1993 for 3 years or longer. Candidate will study gene expression during hemopoietic development and join collaborative studies with local marrow and blood stem cell transplant teams and research scientists at Oregon Health Sciences University/VA Medical Center. Send curriculum vitae, copies of significant publications, a statement of research interests and a list of 3 references to: **Dr. Douglas C. Dooley, Director of Research, American Red Cross, P.O. Box 3200, Portland, OR 97208.** *The American Red Cross is an Equal Employment Opportunity Employer.*

### IMMUNOLOGIST

The Veterinary Infectious Disease Organization (VIDO), a research institute situated at the University of Saskatchewan, focuses on developing novel methods of controlling infectious diseases of animals. VIDO's philosophy is to develop multidisciplinary teams to focus on specific areas of research. We are presently recruiting individuals (Postdoctoral to Senior Scientists) to join a group investigating the role of cytokines in pathogenesis and disease modulation, and improving immunization protocols (adjuvants).

Experience in molecular immunology, cellular immunology, and vaccine development as well as willingness to work as a team member are prerequisites. Depending on qualifications, the applicant could be appointed as the team leader.

Inquiries and applications should be directed to:

**Dr. Lorne A. Babiuk  
Associate Director (Research)  
Veterinary Infectious Disease Organization  
124 Veterinary Road  
SASKATOON, Saskatchewan Canada  
S7N 0W0**

**MEDICAL DOSIMETRIST** for a Cleveland area hospital: Measures and calculates radiation dose and develops optimum arrangement of radiation fields and exposures to treat patient by studying prescription, X-rays showing area to be treated, and requirements for dose calculation. Selects beam energy, optimum multiple beam arrangement, beam modifying devices, and other factors, using computer, manuals, and guides. Develops several possible treatment arrangements for selection by physician. Measures and calculates prescribed radiation dose using manual, guides, and computer. B.S. in Biological Sciences or Radiologic Technologies, and academic coursework in Radiation Physics and Radiation Oncology required. Will accept medical degree in lieu of B.S. Must have one year of experience as Medical Dosimetrist or Radiation Researcher, including at least six months each of Dosimetry and use of computer treatment planning system. Forty hours per week, 8:00 a.m. to 5:00 p.m., Monday to Friday. Salary \$17.40 per hour. *Must have proof of legal authority to work permanently in United States.* Send résumé in duplicate (no calls) to: **L. Ellison, JO# 1200956, Ohio Bureau of Employment Services, PO Box 1618, Columbus, OH 43216.**

### HUMAN MOLECULAR GENETICIST

The Marshfield Medical Research Foundation, a Division of the Marshfield Clinic, is accepting applications for a **RESEARCH SCIENTIST** position as part of an expansion of the Center for Medical Genetics. We are seeking an exceptional individual who will develop an outstanding, independent research program. Candidates with research interests in all areas of human molecular genetics are encouraged to apply. Candidates must possess a Ph.D. or M.D. degree and at least two years of postdoctoral experience. Marshfield offers a newly constructed laboratory, generous start-up funds, and a competitive salary and benefits package. Evaluation of applications will continue until the position is filled. For consideration, send curriculum vitae, a brief statement of research interests and the names of three references to: **Dr. James Weber, Chairman, Search Committee, Marshfield Medical Research Foundation, 1000 North Oak Avenue, Marshfield, WI 54449.**

*Equal Opportunity/Affirmative Action Employer, M/F/H/V.*

## POSITIONS OPEN

### U.S. NAVY MEDICAL SERVICE CORPS OFFICERS

The U.S. Navy has openings for Ph.D.-level research positions as active duty naval officers. The persons selected will conduct basic and applied research on biochemical problems for the Navy. Applicants must be versatile, willing to relocate, and pass minimum physical and medical requirements. Requirements include Ph.D.-level training in biochemistry, forensic toxicology, molecular biology, pharmacology, toxicology, or analytical chemistry. A Master's level clinical chemist will also be considered. Pay and allowances vary, but start in the \$40,000 range plus benefits. Contact a Navy Recruiter or send a résumé to: **Captain R. L. Hilderbrand, MSC, USN, OCDEP @S. RM.25E 549, Pentagon, Washington, DC 20301-1515.**

### PHYSICIAN-SCIENTIST DEPARTMENT OF PSYCHIATRY

The Ann Arbor VA Medical Center and the University of Michigan Department of Psychiatry are offering an exciting opportunity for a Psychiatrist with a basic research background to develop a Psychobiology Laboratory. Interest in aging, addiction, PTSD, or schizophrenia preferred. The package includes a newly renovated 1000 square foot, equipped wet laboratory and a 2-year salary for a research technician. The position includes .75 FTE VA salary, .25 University salary, and a tenure-track position consistent with the applicant's credentials. *The Ann Arbor VA and the University of Michigan are Equal Opportunity Employers.* Please contact: **Stanley Watson, M.D., Ph.D. (313) 763-3725** or send curriculum vitae to: **Room 2060 MHRI, 205 Zina Pitcher Place, Ann Arbor, MI 48109-0720.**

### STAFF PHYSICIAN DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER, BOSTON BEHAVIORAL NEUROSCIENCE SECTION HEAD BOSTON UNIVERSITY

The Department of Veterans Affairs Medical Center, Boston, and the Department of Neurology, Boston University School of Medicine seek applicants for the position of Staff Physician/Section Head, Behavioral Neuroscience. Duties include supervision of the research, clinical and teaching activities of the Section. Candidates should hold an M.D. or M.D./Ph.D. degree. Candidates should have significant research experience in behavioral neuroscience. Rank and salary will depend upon qualifications.

Submit curriculum vitae to: **Search Committee Chair, Thomas R. Browne, M.D., Neurology Service (127), V.A. Medical Center, 150 South Huntington Avenue, Boston, MA 02130.**

**PROCESS ENGINEER;** research engineer with broad responsibilities in (meth) acrylic and specialty monomer process development, scale-up and optimization. Plan, schedule, supervise, analyze and communicate results of multiple assignments. Design and data analysis utilizing applied statistical and mathematical modeling techniques. Identify and evaluate process modifications/alternatives to reduce waste generation, minimize byproduct formation, improve process efficiency, boost productivity, and lower manufacturing costs. Studies to synthesize, characterize and evaluate polymer supported catalysts in production of (meth) acrylate monomers. Requirements: Ph.D. in Chemical Engineering and one year of experience as researcher with extensive knowledge of numerical methods (finite difference techniques and applied mathematical modeling). Strong academic research background as demonstrated by publications in major scientific journals. Background in polymer physics—thermodynamics and transfer phenomena in polymer structures, determination, and characterization of polymer morphologies. Experience in design, construction, operation and control of lab equipment and with ASPEN and SimuSolv. Forty hours per week; salary \$55,425 per year. Résumé or curriculum vitae to: **Philadelphia Job Bank, 444 North 3rd Street, 3rd Floor, Philadelphia, PA 19123. J.O. #4488499.**



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- Cris Cheney** - Vesicular transport and cytoplasmic localization in early development of *Drosophila*.  
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**David Kirk** - Genes controlling differentiation of germ and soma in *Volvox*.  
**Jim McNally** - Morphogenesis in the cellular slime mold *Dictyostelium discoideum*.  
**Kathryn Miller** - Function of actin-associated proteins in the organization of the early *Drosophila* embryo.  
**Craig Pikaard** - Transcriptional regulation in plants and animals.  
**David Ornitz** - The role of growth factors in mouse development and neoplasia.  
**Eric Richards** - Chromosome structure and function in *Arabidopsis*.  
**Tim Schedl** - Control of germline sex determination and entry into the meiotic pathway in *C. elegans*.  
**Bob Waterston** - Muscle development in the nematode *C. elegans*.

For additional information please write to Rosemary Garagnani, Biology & Biomedical Sciences, Campus Box 8226, 660 S. Euclid Ave., St. Louis, MO 63110-1093; or call 800-852-9074.

# PHARMACEUTICAL RESEARCH

The ICI Pharmaceuticals Group, dedicated to the challenge of discovering and developing important new therapeutic agents, is seeking pharmacologists for the CNS and General Pharmacology drug discovery research groups at our suburban Wilmington, Delaware location.

## CNS Pharmacology

**BEHAVIORAL PHARMACOLOGIST** — The successful candidate will interact in an exciting interdisciplinary environment towards the development of novel pharmacological agents for the treatment of neurological and psychiatric disorders. Qualified candidates must have a PhD in Pharmacology, Neuroscience or related discipline with a minimum of two years' postdoctoral experience. Experience with behavioral and *in vivo* neurochemical models of cognitive dysfunction, depression, and psychosis is desirable. Excellent communication skills and the ability to work effectively in a team setting are required.

## General Pharmacology

**PHARMACOLOGIST** — The successful candidate will be involved in ancillary pharmacology of compound screening. The position requires a BS in Biology or other related sciences and experience in techniques of oral and parenteral drug administration. Good written and oral communication skills are also required.

We offer an excellent compensation and comprehensive flexible benefits program and the opportunity for growth with one of the world's leading pharmaceutical companies.

For consideration, please submit resume c.v. to: **Melanie M. Lewis, Human Resources, ICI Pharmaceuticals Group, Concord Pike and New Murphy Road, Wilmington, DE 19897.**



# Pharmaceuticals

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## Faculty Position

University of Massachusetts Medical Center

An opening is available for a tenured or tenure-track position in the **Department of Biochemistry and Molecular Biology**. This position is highly competitive with regard to laboratory space, start-up funds and salary. Rank will be commensurate with qualifications.

The department seeks an individual with outstanding research achievements and potential to complement a broadly based program in the general areas of macromolecular structure and function, gene expression, and molecular cell biology. Available facilities include DNA/RNA synthesis, molecular modeling, transgenic mice, tissue culture, and monoclonal antibody production.

Please send curriculum vitae, statement of research interests, and names of three references to: Search Committee, c/o Dr. Reid Gilmore, Department of Biochemistry and Molecular Biology, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655.



Women and minority candidates are strongly encouraged to apply.

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## ANALYTICAL CHEMISTRY BS LEVEL POSITIONS(S)

The selected individual will perform peptide and protein chromatography, will develop and validate chromatographic methods for the characterization of therapeutic peptides and proteins, and will provide documentation suitable for submission to regulatory agencies.

The successful candidate will have a BS in Chemistry or Biochemistry, with a minimum of two to five years of hands-on experience in the chromatographic characterization of peptides and proteins. An understanding of GLP/GMP regulations would be an important attribute. A working knowledge of peptide mapping and electrophoresis would be beneficial.

## ANALYTICAL CHEMISTRY PH.D. LEVEL POSITION

The selected individual will characterize biopharmaceutical proteins using a variety of techniques, and will contribute to IND/NDA/PLA submissions. Duties will include developing and validating analytical methods for protein characterization, characterizing biopharmaceutical supplies destined for toxicology or clinical studies, and liaising with key individuals from other departments.

The qualified candidate will possess a Ph.D. in Chemistry, Biochemistry or a related field, and two to five years post graduate experience. A thorough knowledge of protein characterization, protein chromatography, SDS-PAGE, IEF, Western Blotting, ELISA, and enzymatic digestions is essential. A working knowledge of GLP/GMP regulations would be beneficial.

For consideration, please send your C.V., including references, in confidence to: Alkermes, Inc., Box TAL, 64 Sidney Street, Cambridge, MA 02139-4136.

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## PROGRAM OF EXCELLENCE IN MOLECULAR BIOLOGY OF THE HEART AND LUNG

### Special Postdoctoral Positions

The University of Cincinnati Program of Excellence in Molecular Biology of the Heart and Lung, funded by the National Heart, Lung and Blood Institute of NIH, has as a goal the application of molecular genetic approaches to study heart and lung function. Postdoctorals work closely with the sponsor in initial years but are encouraged to develop a research program separate from that of the sponsor and apply for independent funding during the final year.

The Program is open to Ph.D.s or M.D.s with training in molecular genetics who wish to apply their skills to significant problems of heart or lung or to individuals with strong backgrounds in heart and lung who wish to develop molecular genetic tools for continued study of these problems. We are particularly interested in recruiting minorities to the Program. Stipends begin at \$26,000 per year with benefits. Openings are available in several of the laboratories listed below.

*Na,K-ATPase gene regulation and structure-function studies including identification of the cardiac glycoside binding site using site specific mutagenesis.* Jerry B. Lingrel, Ph.D.

*Characterization of lung surfactant proteins and genes.* Jeffrey Whitsett, M.D.

*Collagen gene expression in the heart and lung.* Winston Kao, Ph.D.

*Structure-function relationships and genetic regulation of ion-transport proteins of heart and lung.* Gary Shull, Ph.D.

*Study of cardiac contractile proteins and growth and developmental control of muscle and pulmonary proteins.* Jeffrey Robbins, Ph.D.

*Transcriptional analysis of promoters expressed in the lung.* Donal Luse, Ph.D.

*Manipulating genes important in heart and lung development by insertional mutagenesis and targeted modification in ES cells.* Steven Potter, Ph.D.

*Structure and function of  $Ca^{++}$  channel proteins (heart, brain, vascular smooth muscle) and gene regulation; isolation of receptors for calcium antagonists.* Arnold Schwartz, Ph.D.

*Role of apolipoproteins in heart and lung development and in resistance to disease.* Judith Harmony, Ph.D.

*Targeted modification of genes important in cardiovascular development and disease.* Thomas Doetschman, Ph.D.

*The genetics of human cardiovascular disease.* Anil Menon, Ph.D.

**Applicants should submit a C.V. and the names of three references to Jerry B. Lingrel, Ph.D., Director, Program of Excellence in Molecular Biology, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati College of Medicine, Cincinnati, Ohio 45267-0524.**

*Affirmative Action/Equal Opportunity Employer*

**Instructor or Assistant Professor** full time, tenure-track positions for Fall, 1993. Stockton State College is an undergraduate, liberal arts and sciences college in the New Jersey Pine Barrens near Philadelphia, Atlantic City, and the New Jersey shore.

**BIOLOGY:** Expertise in neuroscience, animal physiology and animal behavior. Participation in introductory biology and general studies courses. Eight faculty and 250 majors are included in the Biology program.

**CHEMISTRY: Biochemistry:** Expertise in modern biochemistry with an emphasis on laboratory work. Participation in introductory and organic chemistry and general studies courses. **Instrumental/Experimental Chemistry:** Expertise in instrumental chemistry and laboratory methods with an environmental chemistry emphasis strongly preferred. Participation in introductory chemistry and general studies courses. The Chemistry program includes eight faculty members and 50 majors and offers an ACS certified degree with a research requirement.

**ENVIRONMENTAL STUDIES: Pollution:** Scientific expertise in such areas as ecosystem toxicology; air and water quality and environmental engineering, regulation, law, remediation and impact assessment. Participation in introductory environmental studies and general studies courses. The interdisciplinary Environmental Studies program includes about 300 majors and 10 faculty.

We are seeking individuals with spark, insight, and a commitment to undergraduate teaching and productive research with student participation. Ph.D. required for Assistant Professor (\$30,312-\$34,860) and strongly preferred; ABD required for Instructor (\$24,937-\$28,676). Salaries may be higher depending on qualifications, experience and increases in the New Jersey Higher Education Compensation Plan. Send letter of application, resume, three letters of recommendation and evidence of completion or expected date of completion of Ph.D. to Dr. Barbara Byrne, Dean of Natural Sciences and Mathematics, Stockton State College, AA29, Pomona, NJ 08240. Stockton is an AA/EOE. Women and minorities are encouraged to apply. R302225

LUDWIG INSTITUTE  
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10th ANNIVERSARY

MEETING  
ANNOUNCEMENT

BASIC AND APPLIED  
CANCER RESEARCH

April 1 - 3, 1993

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April 4 - 6, 1993

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Speakers:

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Registration  
and  
Abstract Deadline  
March 1st., 1993

### Contact

Dr. Luisa L. Villa or Libeca M. Ward  
Instituto Ludwig de Pesquisa sobre o Câncer  
r. Prof. Antonio Prudente #109, 4th floor  
CEP 01509-010  
Phone: (011)270-4922 Fax: (011)270-7001  
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Please send nominations or applications (with names and addresses of references) by March 1, 1993 to: Search Committee, c/o Prof. Jacques Cohen, tel: (617) 736-2702, email: jc @ cs.brandeis.edu, Computer Science Department, Brandeis University, Ford Hall, Waltham, MA 02254.

Brandeis University is an equal opportunity/affirmative action employer. We particularly encourage applications from women and minorities.

### MAMMALIAN PHYSIOLOGIST ENVIRONMENTAL ZOOLOGIST

The Department of Biology at Widener University has openings for two TENURE-TRACK faculty positions at the rank of ASSISTANT PROFESSOR beginning September 1, 1993. Undergraduate teaching excellence is critical for retention and advancement. The Ph.D. degree is required, and post-doctoral experience is desirable. Duties include teaching advanced and introductory undergraduate courses and directing undergraduate students in research. The ability to function well in closely coordinated, team-taught courses is important.

1. **Mammalian physiologist** applicants should be interested in the roles environmental factors play in animal function. The principal teaching responsibility will be a graduate course in human physiology for physical therapy students. Expertise in comparative animal physiology, environmental toxicology, and histology is desirable.

2. **Environmental zoologist** applicants should be broadly trained animal biologists. Expertise in mammalian anatomy/physiology, zoology, comparative vertebrate anatomy, ecology, and environmental science is desirable.

The university is a comprehensive, private, non-denominational institution with an undergraduate/graduate enrollment of about 9,000 students. Please send a curriculum vitae, statement of teaching and research interests, and three letters of reference by February 5, 1993 to: Dr. Theodore J. O'Tanyi (mammalian physiologist) or Dr. Martin Simon (environmental zoologist), Search Committee Chair, Department of Biology, Widener University, One University Place, Chester, PA 19013-5792. Official transcripts are required at time of employment.

## Research Scientist Biometrician/Statistician

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Fisheries and Oceans Canada

Centre for Resource Assessment and Survey Methodology, St. John's, Newfoundland

There is an immediate need for a versatile individual who can collaborate with fishery scientists and develop new models, tests and methods in support of the Department's fishery resource assessment mandate. The position involves both long-term and short-term research on a wide variety of topics. You will work alone and in collaboration with other scientists at the Northwest Atlantic Fishery Centre, and in other laboratories as part of a group with expertise in statistics, modeling, mathematics and population dynamics.

You must have a doctoral degree from a recognized university in statistics, applied mathematics or another appropriate quantitative science, or a lesser degree with evidence of research experience and productivity equivalent to that of a doctoral degree. You also require experience in conducting research in applied mathematics (statistics) and a strong theoretical background demonstrated by a significant record of publications in primary scientific literature. Proficiency in English is essential.

\*The salary will be commensurate with your qualifications and experience.

Preference in appointment will be given to Canadian citizens.

Further information may be obtained by contacting Dr. John M. Hoenig, Centre Head, Resource Assessment and Survey Methodology, at (709) 772-2802.

Please forward your résumé and/or application form by January 29, 1993, quoting reference number S-92-31-7673-47JG-(G35), to: **Public Service Commission of Canada, 66 Slater Street, Ottawa, Ontario K1A 0M7.**

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## CANCER

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Dr. John Eppig has a position open for a research assistant skilled in the techniques of Molecular Biology including RNA extractions, preparation of probes, Northern/Dot blot hybridizations, protein labeling, immunoprecipitation, polyacrylamide gel electrophoresis, and Western blotting. A B.S. in the life sciences is required along with the ability to function independently. The area of research is mammalian oocyte development, but previous experience in this area is not necessary. Send inquiries to Harold Wheeler, Manager of Human Resources.

### Postdoctoral Fellow Sex-Determination and the Y Chromosome

The laboratory of Elizabeth M. Simpson is undertaking the construction of a 'physical map of the murine Y chromosome.' This Genome-based project requires a self-motivated Postdoctoral Fellow with leadership qualities and a strong molecular biology background. Techniques employed would include the generation of 'Sequence tagged sites,' construction of a YAC library, assembly of YAC contigs and computer database management. Send inquiries to Phyllis Mobraaten, Training Office.

The Jackson Laboratory  
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## POSITIONS OPEN

### ASSISTANT RESEARCH SCIENTIST

The Department of Neurology of the City of Hope National Medical Center is seeking a Ph.D. or M.D./Ph.D. Molecular Virologist with an interest in herpes viruses for a tenure-track position at the level of Assistant Research Scientist. The successful candidate will be expected to develop an independent research program with preference given to candidates using molecular genetic approaches. Candidates interested in herpes virus vectors for gene therapy, antisense nucleic acids as antiviral drugs and neural gene expression in relation to HSV latency are particularly encouraged to apply. The City of Hope is an NCI Cancer Center and has excellent facilities for DNA, RNA and peptide synthesis, protein and DNA sequencing, mass spectrometry, molecular cloning and molecular modeling. Ample opportunity exists for collaboration within the Center and also with scientists in the Beckman Research Institute at the City of Hope. Send curriculum vitae together with the names of three references and a brief summary of research objectives to: Lindsey O'Steen, City of Hope National Medical Center and Beckman Research Institute, Human Resources Department, 1500 East Duarte Road, Duarte, CA 91010. Affirmative Action/Equal Opportunity Employer. A National Cancer Institute Designated Clinical Cancer Research Center.

**CHEMIST II** in Metabolism Department to conduct research experiments in isolation, characterization, and identification of metabolic products related to plant and animal metabolism, according to U.S. EPA and FDA regulations. The Chemist II will establish and develop methods to purify test chemicals, to isolate and characterize/identify organic and biochemical compounds, and to synthesize metabolites as analytical standards. Also, the Chemist II will study metabolism mechanisms and monitor the metabolism of investigated chemicals in biological systems and will prepare written reports/summaries utilizing word processing/spreadsheet programs and will train lower-level chemists and lab personnel. Handling radioactive and potentially health hazardous materials is required.

The Chemist II must have an M.S. degree in chemistry and training in both organic synthesis and mechanism of organic reactions, familiarity of chromatography, including gas chromatography (GC), high-performance liquid chromatography (HPLC), thin-layer chromatography (TLC), and solid phase extraction (SPE). Demonstrated experience in elucidation of complex molecular structures and purity assessment through mass spectroscopy (MS), infrared spectroscopy, ultraviolet spectroscopy. Also, experience in biochemistry, radiochemical methods, and analysis and other related areas of life sciences is required.

Forty hours per week, salary \$32,000 per year. Send résumé to: ABC Laboratories, Inc., P.O. Box 1097, Columbia, MO 65205, Attention Scott W. Theobald.

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**MOLECULAR BIOLOGIST:** Ohio Wesleyan University, a selective private college of 1900 students, seeks applicants for a teaching position in Molecular Biology beginning August, 1993. Term position of up to three years, with possibility of conversion to tenure-track after one or two years. Ph.D., eukaryotic molecular biologist preferred with proficiency in a variety of modern laboratory techniques, and commitment to quality teaching of undergraduates at introductory and advanced levels. Send letter of application, curriculum vitae, graduate transcripts, and three letters of recommendation by February 15, 1993 to: D. Radabaugh, Bigelow-Rice Hall, Ohio Wesleyan University, Delaware, OH 43015. For further information, EMAIL: jmfreed@cc.owu.edu.

OWU is an Affirmative Action/Equal Opportunity Employer. Women and minorities strongly encouraged to apply.

## ANNOUNCEMENTS

### ECOLOGICAL RESEARCH FELLOWSHIP

The Institute of Ecosystem Studies (IES) will award a fellowship for a three-month period during the summer of 1993. The successful candidate will hold the Ph.D., and will conduct ecological research as a part of the program of IES at the Mary Flagler Cary Arboretum in Millbrook, New York. The award includes a summer stipend plus limited funds for research. Candidates should be interested in collaborating with a diverse group of ecologists and ecosystem scientists. Submit a letter of application, curriculum vitae and names of three referees by 1 April 1993 to: Dr. Peter M. Groffman, Institute of Ecosystem Studies, Box AB, Millbrook, NY 12545-0129. An Equal Opportunity Employer.

## COURSES AND TRAINING

### GRADUATE TRAINING IN VIRAL ONCOLOGY AND IMMUNOLOGY

Stipends are available for students pursuing a Ph.D. in molecular oncology or immunology beginning September 1993. The principal interests of participating faculty are viral and cellular oncogenes, growth control, and molecular, cellular, and tumor immunology.

Students will be supported chiefly by an NIH programmatic training grant, requiring U.S. citizenship, or resident status. We strongly encourage applications from minority students. Limited funding is also available outside of this source. Information and applications forms are available from: Dr. R.B. Carroll, Graduate Student Advisor, Department of Pathology, New York University Medical School, 550 First Avenue, New York, NY 10016.

NYU is an Equal Opportunity Employer.

## MEETINGS

**Human Tissue Monitoring and Specimen Banking: Opportunities for Exposure Assessment, Risk Assessment, and Epidemiologic Research, March 30-April 1, 1993, Research Triangle Park, North Carolina, USA.** This symposium will provide a state-of-the-art overview of human exposure assessment, biomonitoring techniques and advances in human tissue specimen banking; the application of these techniques; and future research needs in the areas of human exposure assessment, risk assessment, and environmental epidemiology. Register by telephone: 919/966-4032 or FAX: 919/966-5692. Sponsors: U.S. EPA and School of Public Health, The University of North Carolina at Chapel Hill.

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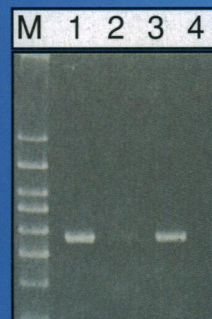
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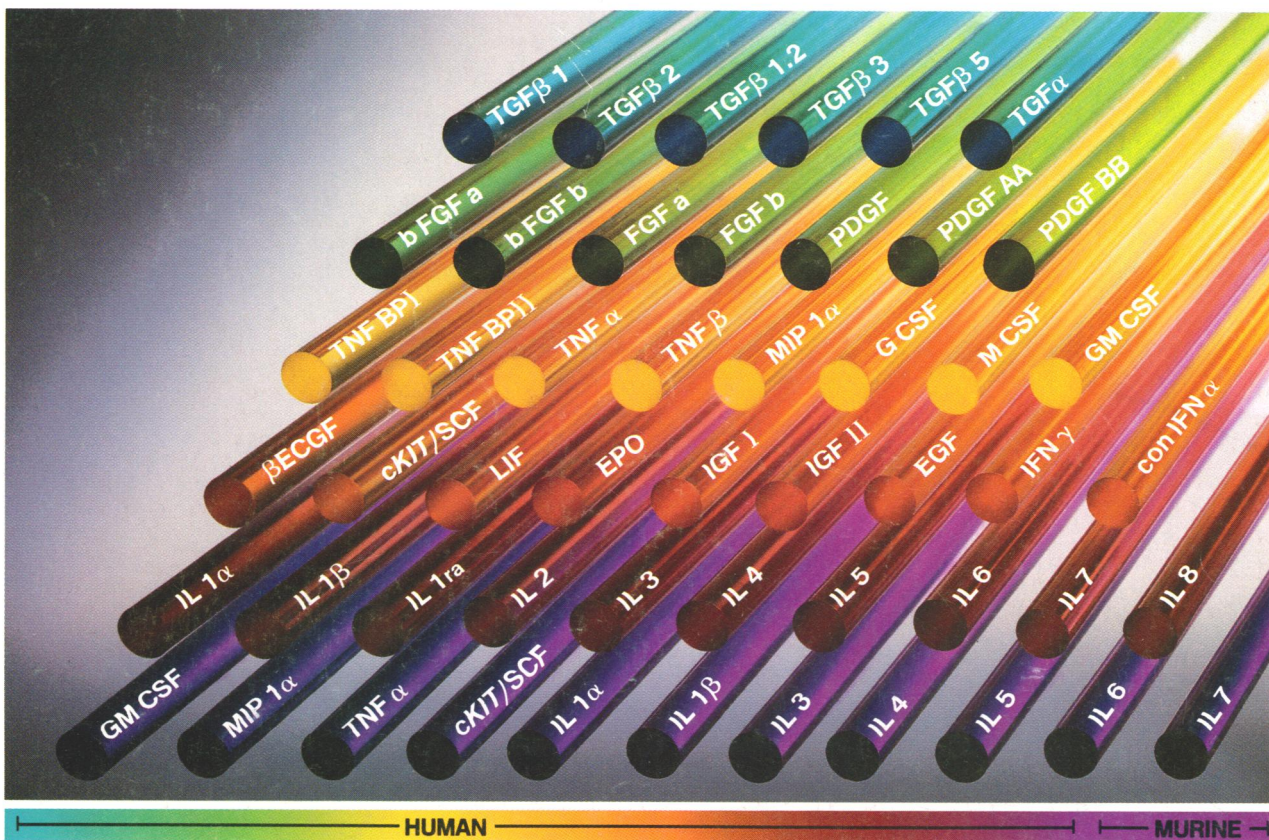
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