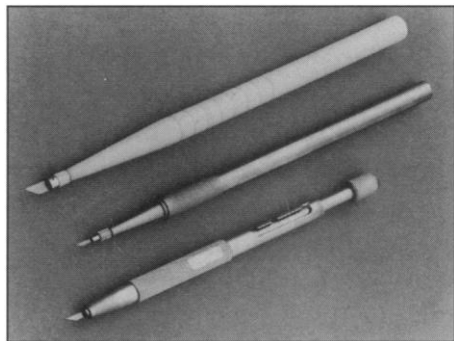


(continued from page 1851)

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document and insert them all at once. The new versions can have up to 10 databases open at one time and perform key operations on all open databases. Users can link directly to the Web from a URL stored within a reference. **Research Information Systems.** For information call 760-438-5526 or circle 138 on the Reader Service Card.

DNA Extraction and Purification

The Nucleon range of DNA extraction and purification products allows researchers to extract, purify, label, and detect nucleic acids using products from a single supplier. Applications include genomic DNA extraction from blood and cultured cells, animal and plant tissue, and yeast; plasmid DNA extraction from mini- to mega-preps; post-polymerase chain reaction cleanup; and DNA recovery from gels and solutions. **Amersham International.** For information call +44 (0) 1494 542826 or circle 139 on the Reader Service Card.

Experimental Chemistry Software

CAChe 3.0 is a software package for experimental chemists that runs under Windows 95, Windows NT, and Macintosh systems. The newest Windows release includes the ProjectLeader interface that lets chemists solve research problems by focusing on properties instead of complex computational methods. This interface makes the power of computational chemistry accessible to experimental chemists without requiring them to become computational specialists. Users can explain reactivities of compounds, model reactions, and predict a wide variety of

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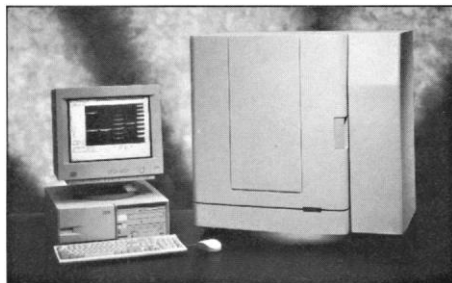
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electronic subtraction via software matrix manipulation. The unit can handle a wide variety of gel sizes. The scanner operates under Windows and comes with a choice of software for DNA base calling or fragment



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Literature

BBL Prepared Plated Media describes these formulations for microbiology. **Becton Dickinson Microbiology Systems.** For information call 410-316-4000 or circle 146 on the Reader Service Card.

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Neurotransmissions: The Newsletter for the Neuroscientist is a free quarterly publication. It focuses on pharmacology and neurochemistry and introduces new products and services. A recent issue features an article titled "Molecular Mechanisms of Neuronal Cell Death." **Research Biochemicals International.** For information call 800-736-3690 or circle 148 on the Reader Service Card.

1997 Spring Books describes more than 40 recently released books and publications covering a diverse range of topics, including cell biology, enzymology, immunology, molecular biology, protein chemistry, signal transduction, and general reference. **Sigma Chemical.** For information call 800-325-3010 or circle 149 on the Reader Service Card.

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Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned in Tech.Sight is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Reader Service Card and placing it in a mailbox. Postage is free.

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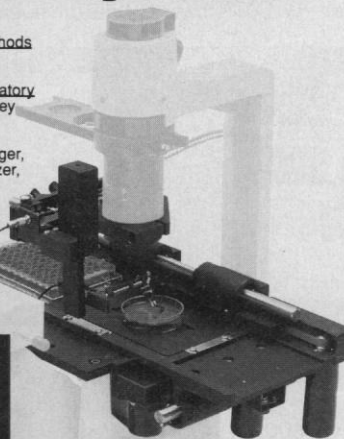
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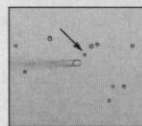
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Journal of Immunological Methods
179, 71-76, Wewetzer and
Seilheimer, 1995, **and**
*Cell and Tissue Culture/Laboratory
Procedures*, Update 12, J. Wiley
and Sons, Wewetzer and
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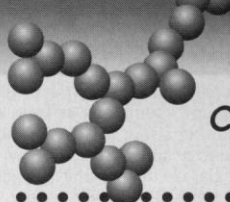
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An, Z. et al. *Clinical and Experimental Metastasis*, 15, 184-195, 1997.
An, Z. et al. *Anticancer Research*, 16, 2546-2552, 1996.
Wang, X. et al. *Cancer Research*, 54, 4726-28, 1994.
Holzman, D. *Journal of the National Cancer Institute* 88, 396-397, 1996.
Hoffman, R., J. *Cellular biochem*, 56, 1-4, 1994.

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FACULTY POSITION (TENURE-TRACK) DEPARTMENT OF PHARMACOLOGY

Uniformed Services University, Bethesda, Maryland

The Uniformed Services University of the Health Sciences (USUHS) invites applications for a tenure-track position of **ASSISTANT PROFESSOR** in the Department of Pharmacology. Applicants with an M.D. degree, state medical license, and board certification in clinical pharmacology or another primary medical specialty, or with a Ph.D. degree in a basic biomedical science, are encouraged to apply. If a clinician is appointed, he/she will be encouraged to retain his/her clinical skills with a limited commitment to appropriate clinical service in consultation with the Chairman, Department of Medicine. The appointee's research program will preferably be in the area of clinical pharmacology, drug metabolism, or toxicology, and should have the strong potential to generate significant extramural funding. Applicants should have a strong commitment to teaching pharmacology. A generous start-up package includes equipment, research supplies, and technical support. The salary level for a clinical or a non-clinical appointee is nationally competitive and fully supported from University resources. Review of applications will begin in November, 1997. Applicants should submit a curriculum vitae and bibliography, the names of three references, and a statement of research interests to: **Brian M. Cox, Ph.D., Chairman, Department of Pharmacology, Uniformed Services University of Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814-4799**. Foreign nationals will be considered only if qualified citizens of the United States are not available. *USUHS is an Equal Opportunity/Affirmative Action Employer, strongly committed to racial, cultural, and ethnic diversity.*

TEACHING POSITIONS

Physiology, Anatomy, Microbiology, Pathology, Biochemistry, Embryology, Neuroanatomy, Immunology, and Genetics

Available at American University of the Caribbean School of Medicine. These positions are located at St. Maarten in the Caribbean. Applicants must have a Ph.D. or M.D. degree and be devoted to teaching medical students. Full-time and visiting appointments available. Send résumé to: **MEIO-S, 901 Ponce de Leon Boulevard, #201, Coral Gables, FL 33134**. FAX: 305-444-6791; Telephone: 305-446-0600, ext. #19; website: www.aucm.edu.

POSITIONS OPEN

CHAIR OF BIOLOGY

The Department of Biological Sciences at Northern Arizona University invites applications and nominations for Chair of Biology to commence August 1998. We seek candidates with superior records of teaching, research, and grant support with demonstrated leadership and administrative skills. We expect the successful candidate to contribute to the teaching program of the department and maintain a research program. Candidates must have an earned Ph.D. and qualifications commensurate with the rank of Professor with tenure. Research area should complement the mission of the department and university. The Northern Arizona University community is composed of faculty, staff, and students from a wide range of culturally diverse backgrounds. Applicants should be experienced with, and committed to work in, such a diverse population. Previous academic experience, beyond the graduate level, in a broadly based biology program is highly desirable.

The Department consists of 38 faculty members with approximately 1,000 majors seeking undergraduate degrees in biology, botany, microbiology, and zoology. Approximately 55 full-time graduate students seek M.S., M.A.T., and Ph.D. degrees. Applications should include a curriculum vitae, a concise statement of professional goals and philosophy, and names, addresses, and telephone numbers of five referees. Review of applications will begin 27 October 1997 and will continue until the position is filled. Send to: **Biology Chair Search, Office of the Dean, College of Arts and Sciences, Box 5621, Northern Arizona University, Flagstaff, AZ 86011**. *Northern Arizona University is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION MAMMALIAN LENTIVIROLOGIST Institute for Gene Therapy and Molecular Medicine Mount Sinai School of Medicine

Faculty positions at all tenure-track levels are available in the Institute for Gene Therapy and Molecular Medicine at the Mount Sinai School of Medicine. Applicants should have extensive experience in the study of mammalian lentiviruses and an interest in the design, development, and application of lentiviral-based vectors for *in vivo* gene transfer into mammalian cells. Successful applicants will be expected to develop, or have in place, a strong, independent research program capable of successfully competing for research funding. In addition to excellent start-up packages and state-of-the-art research facilities, the Institute for Gene Therapy and Molecular Medicine also offers an ideal environment for the establishment of productive collaborative efforts with existing faculty who have interests and expertise in molecular virology, cellular immunology, stem cell biology, molecular genetics, and the development of viral and non-viral vectors for use in gene therapy of animal models of human disease.

Interested candidates should send a curriculum vitae, a description of past research accomplishments and future research plans, and three letters of reference by October 31, 1997, to: **Randy C. Eisensmith, Ph.D., Chair, Genetic Vector Systems Search Committee, Institute of Gene Therapy and Molecular Medicine, Mount Sinai School of Medicine, One Gustave L. Levy Place, Box 1496, New York, NY 10029-6574**. *The Mount Sinai Medical Center is an Equal Opportunity Employer, fostering diversity in the workplace.*

FACULTY POSITION DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY Stritch School of Medicine Loyola University Chicago

The Department of Microbiology and Immunology (Chair: **Dr. Katherine L. Knight**) invites applications for a tenure-track appointment at a junior or senior level. The candidate is expected to develop or have established an independent, extramurally funded research program using mammalian, yeast, or prokaryotic models to study molecular aspects of immunology, virology, or bacteriology. Excellent facilities and attractive start-up funds are available. Applicants should send a curriculum vitae, a concise statement of their present and future research interests, and names and addresses of three references to: **Dr. Katherine Knight, Department of Microbiology and Immunology, Loyola University Chicago, 2160 South First Avenue, Building 105, Maywood, IL 60153**.

POSITIONS OPEN

FACULTY POSITION X-RAY CRYSTALLOGRAPHY

The Department of Molecular Genetics, Biochemistry, and Microbiology invites applications or nominations for one **TENURE-TRACK ASSISTANT PROFESSOR** in the area of X-ray crystallography. The successful candidate will bring the discipline to our structural biology program which includes a world class NMR facility with a 400, a 500, two 600, and an 800 MHz instrument. Structural biology has been designated a priority of the College. With 26 full-time faculty, we maintain strong active research programs in disciplines including structural biology, differentiation, developmental and cancer biology, human genetics, molecular and cellular immunology, viral and microbial pathogenesis, and membrane transport. We support an active graduate program and maintain core facilities accessible to all University faculty, for production of transgenic and knockout mice and DNA synthesis and sequencing. These opportunities are complemented by mouse physiology and pathology services in other departments and by the Barrett Cancer Center and the Cardiovascular Center, providing a breadth of research opportunities unparalleled at most research institutions. Our program can be visited through our website: <http://ucmg65.med.uc.edu/>. Applicants should submit a curriculum vitae, brief description of research program, and the names of three qualified references to: **Jerry B Lingrel, Ph.D., Professor and Chair, Department of Molecular Genetics, Biochemistry, and Microbiology, University of Cincinnati College of Medicine, 231 Bethesda Avenue, Cincinnati, OH 45267-0524**. *Affirmative Action/Equal Opportunity Employer.*

The Respiratory Sciences Center and the Department of Cell Biology and Anatomy at the University of Arizona Health Sciences Center seek applications for a **TENURE-TRACK FACULTY POSITION**. The candidate must demonstrate strong interest, postdoctoral research training, and a track record in lung biology, molecular genetics of asthma, or a closely related area. Applicants having M.D.-Ph.D. degrees are preferred. However, applicants with M.D. or Ph.D. degrees and relevant research interests and training will also be considered. Responsibilities will include conducting a productive, externally funded research program and teaching medical and graduate students in cell biology and histology. If an M.D., the applicant must be trained in adult or pediatric medicine with subspecialty training in pulmonary or allergy and will be expected to perform a limited amount of clinical service. The University of Arizona offers exceptional opportunities for collaborative studies and a variety of core molecular biology and imaging facilities. Applicants must send a curriculum vitae with a statement of professional goals and request that three letters of reference be sent to:

**The Pulmonary/Cell Biology Search Committee
Department of Cell Biology and Anatomy
P.O. Box 245044
University of Arizona Health Sciences Center
Tucson, AZ 85724-5044**

Application review begins November 15, 1997, and continues until position is filled. *The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer—Minorities, Women, Disabled, Veterans.* Human Resources website: <http://hr2.hr.arizona.edu>.

FACULTY POSITION IN STRUCTURAL BIOLOGY COLORADO STATE UNIVERSITY

The Department of Biochemistry and Molecular Biology seeks applications for a tenure-track position from individuals at any academic level, with research interests in structural biology. We especially encourage applicants in the areas of NMR, X-ray crystallography, optical spectroscopy, and calorimetry. Candidates must have a Ph.D. degree, an ability to sustain an independent and productive research program, and the desire to participate effectively in undergraduate and graduate teaching. Further information about the Department can be obtained through our website: <http://mmr.bmb.colostate.edu/bmb/>, by written requests to the address below, or by calling Telephone: 970-491-5566. Send curriculum vitae, a statement of research interests, and direct three references by October 31, 1997, to: **Dr. Robert W. Woody, Chair, Search Committee, Department of Biochemistry and Molecular Biology, Colorado State University, Fort Collins, CO 80523-1870**. *CSU is an Equal Employment Opportunity/Affirmative Action Employer, E.O. Office: 101 Student Services.*



National Academy of Sciences Colloquium

"A LIBRARY APPROACH TO CHEMISTRY AND BIOLOGY"

October 20-21, 1997

The Arnold and Mabel Beckman Center,
Irvine, California

organized by **Peter G. Schultz** and **Jonathan A. Ellman**
University of California, Berkeley

Dr. Richard A. Lerner, The Scripps Research
Institute
"Catalytic Antibodies"

Dr. Jim Wells, Genentech, Inc.
"Reducing Big Molecules to Smaller Ones"

Dr. Jack W. Szostak, Harvard Medical School/
Massachusetts General Hospital
*"In vitro Selection and Evolution of RNA, DNA,
and Proteins"*

Dr. Willem P.C. Stemmer, Maxygen, Inc.
*"Molecular Breeding of Enzymes, Pathways, and
Viruses by Recursive Sequence Recombination"*

Prof. Chaitan Khosla, Stanford University
*"Unnatural Natural Products: From Multifunctional
Enzymology to Drug Discovery"*

Prof. Robert T. Sauer, Massachusetts Institute of
Technology
*"Sequence Determinants of Protein Folding and
Function"*

Dr. Ronald W. Barrett, Affymax Research Institute
*"Cell Surface Receptor Ligands Identified From
Combinatorial Libraries"*

Prof. W. Clark Still, Columbia University
*"Combinatorial Synthesis and the Sequence-
Selective Binding of Peptides"*

Prof. Stuart L. Schreiber, Harvard University
"Discovery of Ligands for Use in Chemical Genetics"

Prof. Tack Kuntz, University of California, San Francisco
"Computer-Aided Combinatorial Design"

Prof. Roger Y. Tsien, University of California, San Diego
*"Fluorescent Chemosensors of Intracellular Signal
Transduction for High-throughput Functional Screening"*

Prof. Jasper Rine, University of California, Berkeley
"Maximizing Drug Targets with Yeast Genetics"

Dr. Stephen P. A. Fodor, Affymetrix
"Genes, Chips, and the Human Genome"

Prof. Stephen A. Johnston
University of Texas-Southwestern Medical Center
*"Searching Peptide Space for Cell-Targeting
Peptides"*

Dr. Henry Weinberg, Symyx Technologies
"Combinatorial Methodologies for Materials Discovery"

For further information, contact **Karen Wong** at wongk@uclink4.berkeley.edu or (510) 643-7160

Name _____
(First Name) (Middle Initial) (Last Name)

Affiliation _____ Position: _____

Address _____ City _____ State _____ Zip Code _____

Phone _____ Fax _____ E-mail address _____

My research interest is in _____

REGISTRATION FEE: \$100 (non-refundable) Registration fee includes breakfast and lunch on October 20 & 21 and dinner on October 20

MAIL THIS FORM WITH PAYMENT TO:

Karen Wong
Department of Chemistry, 834 Latimer Hall
University of California, Berkeley
Berkeley, CA 94720-1460
Fax: (510) 643-6890

POSITIONS OPEN

IMMUNOLOGY FACULTY POSITIONS AVAILABLE

The Department of Microbiology and Immunology invites applications for tenure-track positions at the level of **ASSISTANT PROFESSOR**. We are seeking investigators whose research interests are directed to molecular and/or cellular analyses of contemporary problems in immunology. Candidates will be expected to develop high quality, extramurally funded independent research programs with long-term growth potential. Teaching responsibilities, which emphasize quality rather than quantity, include medical, dental, and graduate students. The Department offers a highly interactive intellectual environment with strong extramural research support.

The review of applications will begin on September 15 and will continue until the positions are filled. Applications should consist of curriculum vitae, copies of several recent publications, a brief statement of future research goals, and three letters of reference to be sent to:

Dr. Terrance G. Cooper
Department of Microbiology and Immunology
The University of Tennessee, Memphis
858 Madison Avenue, Room 801
Memphis, TN 38163

Detailed information about the Department may be obtained on the World Wide Web at website: <http://microbiology.utmen.edu>.

The University of Tennessee, Memphis is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer.

PHARMACOLOGY FACULTY POSITION

The Department of Pharmacology at the University of South Alabama College of Medicine invites applications for a faculty position with rank and tenure status commensurate with experience. Qualified candidates should have a Ph.D. degree in pharmacology or a related biomedical science and at least two years of postdoctoral experience. Although individuals with research credentials broadly related to pharmacology are encouraged to apply, we are especially interested in candidates with expertise in signal transduction related to cancer, vascular, or respiratory biology. The Department consists of nine funded scientists with active research programs in molecular, biochemical, and cellular pharmacology. In addition to excellent laboratory space and start-up support, there are exceptional opportunities for collaborative research within the Department and elsewhere in the medical school. The greater Mobile area boasts close proximity to beautiful gulf coast beaches and numerous opportunities for outdoor recreation and cultural enrichment. Direct inquiries and applications to:

Mark N. Gillespie, Ph.D.
Professor and Chairman
Department of Pharmacology
University of South Alabama College of Medicine
Mobile, AL 36688-0002

The University of South Alabama is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION VIROLOGY

The Department of Microbiology of The University of Texas Health Science Center at San Antonio invites applications for a tenure-track faculty position. Candidates with an accomplished record of research in the area of viral pathogenesis are encouraged to apply. The successful candidate (Ph.D. and/or M.D. degrees) is expected to develop/maintain innovative research programs, train Ph.D. candidates, and to participate in departmental teaching activities. This is an exceptional opportunity to join a strong department in a major health science center that is committed to excellence in research and teaching and located in a desirable academic-geographic setting. Access to state-of-the-art insectary is available for vaccine development. Applicants should mail curriculum vitae, a statement of current and future research goals, and arrange to send three letters of reference by December 15, 1997, to: **Dr. Charles Gauntt, Chair, Virology Search Committee, Department of Microbiology, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7758.** Additional information may be found through the World Wide Web address at website: <http://www.uthscsa.edu>.

The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.

POSITIONS OPEN

FACULTY POSITION IMMUNOLOGY OF INFECTION

The Department of Microbiology of The University of Texas Health Science Center at San Antonio invites applications for a tenure-track faculty position. Candidates with an accomplished record of research in the area of host immune responses to viruses, bacteria, parasites, or fungi are encouraged to apply. The successful candidate (Ph.D. and/or M.D. degrees) is expected to develop and maintain innovative research programs and to participate in departmental teaching activities. This is an exceptional opportunity to join a strong department committed to excellence in research and teaching and located in a desirable academic-geographic setting. Access to state-of-the-art insectary is available for vaccine development. Applicants should mail curriculum vitae, a statement of current and future research goals, and arrange to send three letters of reference by December 15, 1997, to: **Dr. Judy M. Teale, Chair, Immunology Search Committee, Department of Microbiology, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7758.** Additional information may be found through the World Wide Web address at website: <http://www.uthscsa.edu>.

The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.

CHAIR, DEPARTMENT OF NEUROSCIENCES CASE WESTERN RESERVE UNIVERSITY SCHOOL OF MEDICINE

The School of Medicine at Case Western Reserve University invites applications for the position of Chair of the Department of Neurosciences. The Department was formed in 1989, and now has 12 primary faculty (two additional faculty are being recruited), with particular excellence in developmental neurobiology and in neural plasticity. In 1996, the Department ranked sixth in the nation for NIH grant support (the School of Medicine ranked tenth). For additional information, visit the Department's website: <http://neurowww.cwru.edu>. This is an exceptional opportunity to take a leadership role in a respected, thriving, and growing Department. If you wish to be considered as a candidate, please send a curriculum vitae to: **Dennis M. D. Landis, M.D., Chair, Search Committee for Neurosciences, Departments of Neurology and Neurosciences, School of Medicine E-604, Case Western Reserve University, Cleveland, OH 44106. Telephone: 216-844-3199; FAX: 216-844-5066; e-mail: dld@po.cwru.edu.** Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer; applications are encouraged from members of underrepresented groups.

SOUTHWEST TEXAS STATE UNIVERSITY DEPARTMENT OF BIOLOGY

Director—*Xiphophorus* Genetic Stock Center

Southwest Texas State University seeks applications for a full-time academic professional to serve as Director of the *Xiphophorus* Genetic Stock Center. The Director will hold a permanent faculty position (non-tenure-track). The selected candidate may pursue independent investigations or may participate in ongoing collaborative studies. The Director will be expected to maintain the Center as an international resource, supervise Center staff, and work with investigators that utilize these animals in their research efforts. Additionally, the Director will be expected to spearhead University efforts in obtaining Center funding/support. The desired individual will possess a Ph.D., have postdoctoral experience, and exhibit interpersonal skills necessary to serve as an effective Director.

Salary is negotiable depending on experience. Submit résumé and list of three references to: **Dr. Ronald Walter, Department of Biology, Southwest Texas State University, San Marcos, TX 78666.** Review of applicants begins September 15, 1997, and will continue until position is filled. For more information Telephone: 512-245-2032; e-mail: rw12@academia.swt.edu.

GASTROENTEROLOGY FACULTY POSITION. The University of Illinois at Chicago is seeking an academic gastroenterologist (B.E./B.C.) to join the Section of Digestive and Liver Diseases. This non-tenure position involves patient care, teaching, opportunity for basic and clinical research. Please send curriculum vitae to: **Sharon Gaik, Department of Medicine, The University of Illinois at Chicago, 840 South Wood Street (M/C 787), Chicago, IL 60612.**

UIC is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITION DEVELOPMENTAL BIOLOGIST LAKE FOREST COLLEGE

A continuing appointment as **ASSISTANT PROFESSOR**, which entails possible future tenure consideration, is anticipated beginning August 1998 for a highly qualified Ph.D. interested in teaching and conducting research with undergraduates in a liberal arts environment. Teaching may include upper-level courses in developmental biology, freshman or senior seminars, and research methods courses within a research-integrated curriculum. Area of research specialization is open, but candidates who use modern molecular and biochemical approaches to questions in developmental neurobiology and developmental cell biology are particularly encouraged to apply. Research plans should involve undergraduates in publishable investigations of current questions in developmental biology. Modern research facilities and start-up funds are available. Postdoctoral experience is preferred. Further information about the department is available at website: <http://www.lfc.edu/biology>. A letter stating teaching and research plans, curriculum vitae, and three letters of reference should be sent by October 15, 1997, to: **Dr. William E. Zamer, Chairperson, Department of Biology, Lake Forest College, Lake Forest, IL 60045.**

Applications from women and minorities are actively encouraged.

FACULTY POSITIONS OPEN

The AMC Cancer Research Center, located in Denver, Colorado, wishes to hire several senior scientists for its Center for Cancer Causation and Prevention. AMC Cancer Research Center is a national, not-for-profit research institution located at the foot of the Rocky Mountains on the west side of Denver.

Now under the direction of **Dr. Thomas Slaga**, the Center for Cancer Causation and Prevention conducts basic research in the processes leading to an understanding and prevention of carcinogenesis, cancer recurrence, and metastatic spread. Scientists with experience in prostate, colon, lung, skin, breast, and other hormone-related cancers are preferred, as well as scientists capable of running molecular core resources. Minimum qualifications include doctoral-level training, peer-reviewed grants or contracts as PI or equivalent, and a good publications record in peer-reviewed scientific journals.

To apply for these positions, please submit your curriculum vitae to: Search Committee, c/o Human Resources Department, AMC Cancer Research Center, Lakewood, CO 80214. E-mail: dobbinsl@amc.org; FAX: 303-239-3340.

CHAIR DEPARTMENT OF MOLECULAR PHYSIOLOGY AND BIOPHYSICS Baylor College of Medicine

Baylor College of Medicine invites applications for the position of Chair of the Department of Molecular Physiology and Biophysics. This is an exceptional opportunity to take leadership and to build a prominent physiology department in a highly collaborative environment. We are seeking an outstanding candidate who will establish a first-rate department with a new vision in physiology research using animal models. Interested candidates should send their curriculum vitae to: **Hugo Bellen, D.V.M., Ph.D., HHMI Room T630, Search Committee Physiology, Baylor College of Medicine, Houston, TX 77030. Telephone: 713-798-5272; FAX: 713-798-8515; e-mail: hbell@bcm.tmc.edu.** Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.

NEUROSCIENCE BAYLOR COLLEGE OF MEDICINE

The Division of Neuroscience at Baylor College of Medicine is recruiting for a **FACULTY POSITION** in systems neuroscience. The successful applicant will join faculty with research programs taking molecular, biophysical, biochemical, systems, or theoretical approaches to related problems in neuroscience. Although the successful candidate will become part of an active graduate and postgraduate program and will teach at the graduate level, they will devote most of their efforts to the execution of a vigorous, independent research program. Applicants should send a curriculum vitae, a statement of research interest, and the names of four references to: **John Maunsell, Division of Neuroscience, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030.** Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.

NATIONAL INSTITUTES OF HEALTH

Undergraduate Scholarship Program (UGSP)

Qualified undergraduates can train and be mentored at the cutting edge of biomedical research while receiving scholarship support.

The UGSP is sponsored by the National Institutes of Health (NIH), the Federal Government's lead biomedical research and research training agency. NIH offers scholarships to qualified individuals who are committed to a career in biomedical research.

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

During each year of the award, scholars serve for 10 weeks (with salary/benefits) as employees in NIH research laboratories. They are assigned mentors, participate in seminars and programs available to all NIH researchers, and are provided with housing and transportation. After graduation, they serve 1 year of full-time employment at NIH for each year of scholarship support.

Interested students should apply if they:

- Are committed to a career in biomedical research;
- Are from a disadvantaged background;
- Have a GPA of 3.5 or are in the top 5 percent of their class;
- Are a U.S. citizen, national, or permanent resident;
- Are enrolled or accepted for enrollment as a full-time student at a qualified accredited institution.

This is a special opportunity for special students.

For more information, contact

NIH/OD/OIR/OLRS
UGSP

7550 Wisconsin Avenue, Room 604
Bethesda, MD 20892-9121

Phone: 800-528-7689

Fax: 301-402-8098

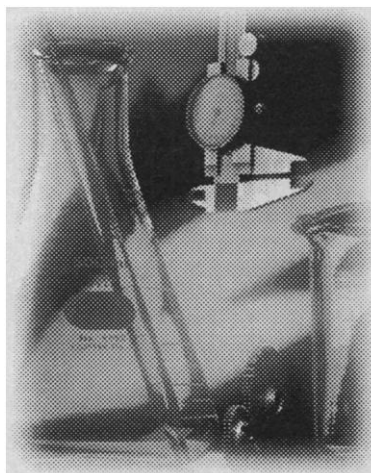
e-mail: ugsp@nih.gov

TTY: 1-888-352-3001

<http://ugsp.info.nih.gov>



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Abbott Laboratories has introduced some of the most impressive innovations in health care. In fact, our Pharmaceutical Products Division is the force behind powerful health care products such as Erythromycin, Biaxin and Cylert. With 54,000 employees worldwide and more than \$11 billion in annual sales, our achievements are known globally and are the result of talented professionals like you.

SENIOR BEHAVIORAL NEUROSCIENTIST

We seek a Ph.D. Biologist to lead a group of 3-4 associate behavioral scientists within a multidisciplinary project team investigating novel approaches to the treatment of pain and inflammation. This position requires a Ph.D. with 3-6 years postdoctoral experience in neuropharmacology, behavioral pharmacology, or neuroscience. Experience with relevant disease models and a background in the application of in-vivo pharmacology to drug discovery is an advantage. A strong record of accomplishments, as demonstrated by publications, and prior supervisory experience are preferred. **(Code 97-LAM-2517)**

PHARMACOKINETICIST

We seek a Pharmacokineticist to join a multidisciplinary team investigating factors limiting oral delivery of discovery compounds. The selected candidate will provide rapid evaluation of oral pharmacokinetics and efficient screening of early leads. Elucidation of oral delivery barriers, including transport and metabolism, will be coordinated with pharmacokinetics to assist strategic chemical synthetic efforts. Analytical expertise in HPLC and MS essential, with cell culture experience and interest in high throughput screens notable advantages. **(Code 97-LAM-2496)**

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POSITIONS OPEN

FACULTY POSITION IN CANCER BIOLOGY

The Center for Advanced Biotechnology and Medicine (CABM) and the Laboratory for Cancer Research (LCR), College of Pharmacy, Rutgers, The State University of New Jersey, are seeking an outstanding investigator for joint appointment as a tenure-track faculty member. Applicants should hold a Ph.D. and/or M.D. degree and have a strong commitment to studying fundamental aspects of cancer biology including the regulation of cell growth and apoptosis, oncogenes and tumor suppressor genes, and the molecular mechanisms of mutagenesis and carcinogenesis. The successful candidate will occupy laboratory space in the CABM building and join a growing life sciences community with opportunities to participate in a variety of research and teaching programs at Rutgers and UMDNJ-Robert Wood Johnson Medical School, including the Cancer Institute of New Jersey. The position is highly competitive with regard to start-up funds, laboratory space, salary, and benefits. Please send a curriculum vitae, brief research plan, and names and addresses of three references to: **Dr. Aaron J. Shatkin and Dr. Allan H. Conney, CABM/LCR Search Committee, 679 Hoes Lane, Piscataway, NJ 08854-5638.** Rutgers, The State University of New Jersey is an Affirmative Action/Equal Opportunity Employer.

TENURE-TRACK ASSISTANT PROFESSOR OF PHYSIOLOGY

The Physiology Department at the University of North Dakota School of Medicine and Health Sciences invites applications for a tenure-track Assistant Professorship to begin July 1, 1998. Applicants should have the Ph.D. or M.D. degree with postdoctoral experience and demonstrate proven success applying modern cellular and molecular approaches to physiologically based biomedical research. A competitive start-up package and state-funded salary are available, as well as extensive collaborative support. Teaching at the graduate and medical school level and participation in the development of disease-oriented research consortia will be expected. Please, by October 30, 1997, forward a statement of professional goals, a current curriculum vitae, and a list of three references with addresses to: **Dr. W. K. Samson, Chair in Physiology, University of North Dakota School of Medicine and Health Sciences, 501 North Columbia Road, Grand Forks, ND 58202-9037.** The University of North Dakota is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR(S) DEPARTMENT OF PATHOLOGY Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts

Tenure-track positions are available for qualified investigators in the Department's research programs in molecular oncology, vascular biology, molecular cytogenetics, and development. Candidates should have successful scientific records as trainees and the promise to develop independent research efforts in areas complementary to those currently in the Department. Experience in teaching and training in basic science in a Department of Pathology is desirable. Please submit a curriculum vitae, brief statement of research plans, and the names of four references to: **Dr. Ramzi S. Cotran, Chairman, Department of Pathology, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115.**

Brigham and Women's Hospital/Harvard Medical School are Equal Opportunity/Affirmative Action Employers. Women and minorities are encouraged to apply.

FACULTY POSITIONS

The Department of Biology at Davidson College invites applications for two tenure-track **ASSISTANT PROFESSOR** positions. We seek applicants in the fields of animal physiology and microbial genetics. The physiologist will teach comparative animal physiology and introductory biology. The geneticist will teach genetics, microbiology, and introductory biology. Research program involving undergraduates expected for both positions. Start-up funds available. Appointments begin August 1, 1998. Interested persons should send their curriculum vitae, teaching and research statements, selected reprints, and three letters of reference to: **Dr. Verna Miller Case, Department of Biology, Davidson College, P.O. Box 1719, Davidson, NC 28036** by November 3, 1997. Website: <http://www.davidson.edu/academic/biology/job.html>. Equal Opportunity Employer; women and minorities encouraged to apply.

POSITIONS OPEN

FACULTY POSITION FRED HUTCHINSON CANCER RESEARCH CENTER

We are seeking to fill one **ASSISTANT, ASSOCIATE, or FULL MEMBER** position in the area of cancer genetics. The successful candidate is expected to develop an independent research program that exploits recent advances in the human genome project. We seek a candidate with interests in genome technology and in collaborating population-based studies on the genetic basis of cancer. The position will be within the Division of Public Health Sciences, and will be part of a cross-disciplinary Genetics Program at the Fred Hutchinson Cancer Research Center with the opportunity for an affiliate appointment at the University of Washington. Candidates should send a curriculum vitae and a concise statement of their research plans along with three letters of reference to:

**Cancer Genetics Search Committee
Fred Hutchinson Cancer Research Center
1100 Fairview Avenue, North Mailstop: A2M-015
P.O. Box 19024
Seattle, WA 98109-1024**

Application deadline: December 31, 1997

Fred Hutchinson Cancer Research Center is an Equal Opportunity Employer committed to workforce diversity.

MOLECULAR BIOLOGY

The Department of Biology at New Mexico Tech invites applications for a tenure-track **ASSISTANT PROFESSOR** in molecular biology. We seek an active scientist with research interests in the molecular aspects of genetics, cell biology, physiology, development, or neurobiology, using any organism. Duties include establishing an externally-funded research program that involves Master's and undergraduate students. Teaching responsibilities include molecular and cell biology and other undergraduate and graduate courses in the candidate's field of expertise. Ph.D. in the biological sciences, a record of published research in molecular biology, and postdoctoral experience are required at the time of application. Please send curriculum vitae, statement of research and teaching interests, up to three reprints of publications, and three letters of recommendation to: **New Mexico Institute of Mining and Technology, 801 Leroy Place, Human Resources Wells Hall Box 80C, Socorro, NM 87801.** Visit our website: <http://www.nmt.edu>. E-mail applications not accepted. Equal Opportunity Employer/Affirmative Action.

FACULTY POSITIONS IN CHEMISTRY

The Department of Chemistry at Washington University in St. Louis invites applications for two tenure-track faculty positions at the **ASSISTANT PROFESSOR** level to begin in September 1998. One position is in the area of materials chemistry. The second position is in the area of experimental physical chemistry. Participation in the teaching of core chemistry courses at both the undergraduate and graduate levels will be required. Applications should be received by 31 October 1997, and consist of a curriculum vitae and a concise, specific statement of research plans. Candidates should arrange for three letters of reference to be sent by the same date. Address all materials to: **Faculty Search Committee, Department of Chemistry, Campus Box 1134, Washington University, One Brookings Drive, St. Louis, MO 63130-4899.** Washington University is an Equal Opportunity/Affirmative Action Employer. Individuals from underrepresented groups are especially encouraged to apply.

CHAIR DEPARTMENT OF PHARMACOLOGY AND MOLECULAR BIOLOGY

Finch University of Health Sciences/The Chicago Medical School has opened a search for the Chair position in the Department of Pharmacology and Molecular Biology. Candidates should have an established funded research program and experience in administration and medical education. The Department has a strong base in molecular-cell biology and neuroscience, and the successful candidate will be able to build on this base with new positions. Internal applicants will be considered for the position. Interested applicants should send copies of their curriculum vitae, a statement of interest, and names of three references to: **Frederick Sierles, M.D., Chair of Search Committee, Department of Psychiatry and Behavioral Sciences, 3333 Green Bay Road, North Chicago, IL 60064** by October 15, 1997. Finch University of Health Sciences is an Equal Opportunity Employer.

POSITIONS OPEN

TENURE-TRACK POSITIONS

The Department of Oral Biology, State University of New York at Buffalo, School of Dental Medicine, invites applications for three tenure-track faculty positions: (OB-1) oral epidemiology; (OB-2) cellular biology related to bone biology, growth, development, and regeneration; and (OB-3) immunology related to cytokines and other inflammatory mediators. Faculty in these positions will be expected to establish or continue independent and collaborative research programs, participate in courses taught to professional and graduate students, and serve as mentors in our active Ph.D. programs. Participation in ongoing collaborations among Dental, Medical, Pharmacy, and Engineering School faculty will be strongly supported.

Requirements for **ASSISTANT PROFESSOR** include a Ph.D., D.D.S., M.D., or other doctoral degree in the appropriate field of interest, and at least two years of postdoctoral research experience resulting in publication in peer-reviewed journals. **ASSOCIATE PROFESSOR** (tenured) may be appropriate for candidates who have made significant contributions in published research, have continued external research funding, and who have attained professional distinction in teaching, mentoring, and service. Appointment to these ranks requires meeting standards established by SUNY at Buffalo.

Applicants should send curriculum vitae, copies of three to five important publications, and letter stating position of interest, state research plans for the near future, and names of three references to: **Dr. Rosemary Dziak, Oral Biology Search Committee, University at Buffalo, 3435 Main Street, Foster Hall, Buffalo, NY 14214-3092.** For further information, Telephone: 716-829-3827. SUNY at Buffalo is an Affirmative Action/Equal Opportunity Employer with an interest in identifying prospective minority and women candidates.

FACULTY POSITION STRUCTURAL BIOLOGY ASSISTANT PROFESSOR

Applications are sought for a tenure-track faculty position at the level of Assistant Professor in the Department of Medical Biochemistry, School of Medicine, Southern Illinois University at Carbondale. The ability to develop an active, externally funded research program and contribute to teaching in the School of Medicine and the Graduate Program in Molecular Biology, Microbiology, and Biochemistry is essential. Applicants are sought whose research interests will complement existing faculty and are interested in structural biology of macromolecules and assemblies. Applicants using NMR and/or X-ray crystallography are encouraged to apply. Minimum qualifications are a Ph.D. in biochemistry, chemistry, physics, biophysics, or in a biological science with a strong biochemical or physical orientation and two years of postdoctoral experience is preferred. Applicants should submit a curriculum vitae with a description of their research plans and have three letters of reference sent to: **John Shriver, Chair, Structural Biology Search, Medical Biochemistry, School of Medicine, Southern Illinois University at Carbondale, Carbondale, IL 62901-4413.** The deadline for receipt of the applications is 01 December 1997, or until the position is filled. SIUC is an Equal Opportunity/Affirmative Action University and encourages applications from women, minority, and persons with disabilities.

ASSISTANT PROFESSOR/BIOCHEMISTRY

Twelve-month tenure-track position at the University of Idaho to begin by June 1998. We are interested in candidates at the Assistant Professor level, capable of establishing a nationally competitive program in plant biochemistry conducting research at the molecular level in (1) plant protein-protein interactions, (2) effects of pathogens on plant metabolism, or (3) regulation of plant metabolism. The successful candidate must demonstrate the ability to communicate effectively and will be responsible for a one-semester undergraduate lecture/laboratory course in basic biochemistry to be taught each year and a graduate level course in his/her area of expertise in alternate years. Applicants should have a Ph.D. in biochemistry or related field, postdoctoral experience, and documented research capabilities. Send letter outlining research and teaching interests, curriculum vitae, and three reference letters by October 15, 1997, to: **Dr. W. R. Trumble, Search Committee Chair, Department of Microbiology, Molecular Biology and Biochemistry, University of Idaho, Moscow, ID 83844-3052; FAX: 208-885-6518; Telephone: 208-885-7966.** University of Idaho is an Affirmative Action/Equal Opportunity Employer.

Growing to excellence ... together

Procter & Gamble is a world leader in the research, development, manufacture and marketing of a wide variety of consumer products including detergents, fabric care products, toilet soaps, beauty and health care products, disposable personal hygiene products, household care products and beverages. Annual sales exceed \$33 billion, and our annual R&D budget is \$1.25 billion. To help to support the expansion, we are currently looking for (m/f)

Human Safety and Environmental Toxicologists/Scientists

THE POSITION

Procter & Gamble – European Headquarters – Brussels (Belgium), has immediate openings for entry level Human Safety and Environmental Toxicologists/Scientists. Initial job responsibilities include the development and coordination of safety programs for consumer products.

THE CANDIDATE

Candidates will have an excellent academic record with a recently completed Ph.D. in (Eco)toxicology, Environmental Chemistry, (Micro)biology, Pharmacology or a related discipline. They will work in a business environment, have good communication skills, a high level of initiative and commitment, have a good command of the English language, and be eligible to work in the European Union. Candidates expecting to meet these requirements and being available for employment now or within a year are invited to apply.

Salaries are highly competitive and coupled with an excellent benefits package which provides for pension, health care, and paid relocation.

Procter & Gamble has a policy of "promotion from within" based on contribution and potential.

APPLICATIONS

To apply, please send your resume and publication list to :

Procter & Gamble

Mrs. C. L'Heureux, Procter & Gamble Europe
Temselaan 100, B-1853 Strombeek-Bever, Belgium
<http://www.pg.com/careers>

Head of the department of ENDOCRINOLOGY

A major
Pharmaceutical
Company wishes
to recruit for its
Research Center,
located in the
Paris area, the :

Motivated by the discovery of new drugs for the treatment of Metabolic diseases, you will be responsible for :

- ☐ the direction of this research group
- ☐ the conception and the realization of research projects and the pharmacological development of new drugs, in direct relationship with our medicinal chemists.

You are at least 35 years of age, medical doctor or pharmacist, with a PhD.

You have several years experience, preferably in an industrial context, of research in the endocrinology of metabolism (Diabetes, Obesity, and their complications), and you are well versed in these areas.

If you are interested in this proposal, please send your CV, photo and a letter stating your salary requirements to PUBLIVAL - 27 Route des Gardes 92190 MEUDON (FRANCE) quoting Réf. 9015



GENOMIC INSTABILITY IN CANCER: MECHANISMS AND INTERPLAY WITH ENVIRONMENTAL CARCINOGENS

An international mini-symposium sponsored by the International Agency for Research on Cancer and the National Institute of Environmental Health Sciences, USA

International Agency for Research on Cancer
Lyon, France
18 December 1997

The meeting is planned to discuss molecular characterization of genomic (e.g., microsatellite) instability and whether and how environmental carcinogens interplay with such genomic instability.

A keynote lecture will be presented by Dr. Lawrence Loeb, from the University of Washington, Seattle, WA, USA.

Other speakers will include: Dr. A. Haugen (National Institute of Occupational Health, Oslo), Dr. P. Karran (ICRF, Potters Bar, UK), Dr. T.A. Kunkel (NIEHS, Research Triangle Park, NC, USA), Dr. N. Mironov (IARC), Dr. M. Perucho (The Burnham Institute, La Jolla, CA, USA), Dr. M. Radman (Institut Jacques Monod, Paris), Dr. H. te Riele (The Netherlands Cancer Institute, Amsterdam), and Dr. H. Yamasaki (IARC).

Provisional programme and registration forms may be obtained from:

The Unit of Multistage Carcinogenesis, IARC
150, cours Albert Thomas - 69372 Lyon Cedex 08 - France
Tel.: [+33] (0)472 73 85 39 - FAX: [+33] (0)472 73 84 42
E-mail: genomic@iarc.fr

REGISTRATION DEADLINE: 15 NOVEMBER 1997
No registration fees.

University of California, Davis, Department of Chemistry invites applications for three tenure-track positions beginning fall 1998, pending administrative approval:

A SYNTHETIC CHEMIST at the interface of organic and inorganic chemistry.

An NMR SPECTROSCOPIST with interests in biological macromolecules. The UCD NMR Facility expects delivery of a new 600 MHz spectrometer to complement a newly upgraded 500 MHz instrument.

An ANALYTICAL CHEMIST with interests in analytical separations and/or single molecule (or particle) detection. Expertise in the analysis of nanostructures is also within the scope of the search.

These positions are at the Assistant Professor level. Successful candidates will demonstrate exceptional promise for active, independent research programs and for teaching. Applicants should write to: **Faculty Recruitment Committee, Room 108, Chemistry Department, University of California, Davis, CA 95616.** They should include a curriculum vitae (including a list of publications), a summary of research objectives, and the names, addresses, and FAX and telephone numbers of three references. The positions are open until filled, but to assure consideration, applications should be received by October 15, 1997. *The University of California, Davis, is an Affirmative Action/Equal Opportunity Employer with a strong institutional commitment to the development of a climate that supports equal opportunity and respect for differences based on gender, cultural ethnicity, disability, and sexual orientation. In that spirit, we are particularly interested in receiving applications from individuals who would enhance the diversity of our workforce.*

**ASSISTANT PROFESSOR
PSYCHOBIOLOGY/BEHAVIORAL
NEUROSCIENCE
University of Florida
Psychology Department**

The Psychology Department invites applications for a position as an Assistant Professor (tenure-track, to begin in the fall term, 1998). Applications should include a curriculum vitae, a statement of research and teaching interests, up to three reprints or preprints, and three letters of recommendation. Candidates with strong research credentials in any area of psychobiology/behavioral neuroscience will be considered. Visit the Department's website: <http://www.psych.ufl.edu> for more information. Applications should be sent to: **Psychobiology Search Committee, Psychology Department, University of Florida, Gainesville, FL 32611-2250.** The selection process will be conducted under provisions of Florida's "Government in the Sunshine" and Public Records Laws. Anyone requiring special accommodations to complete an application should contact the search committee chair. Deadline for receipt of applications is November 21, 1997. *The University of Florida encourages applications from women and members of minority groups.*

PLANT EVOLUTIONARY BIOLOGY

The Department of Biology at Middlebury College invites applications for an entry-level tenure-track position in plant evolutionary biology to begin September 1998. Responsibilities will include teaching botany and introductory evolutionary biology, and either an upper-level course in the candidate's area of specialization or an introductory course for non-majors each year. The successful candidate must establish an active research program in plant evolutionary biology that can include undergraduates. Appointment will be made at the rank of **ASSISTANT PROFESSOR.** Candidates should provide evidence of commitment to excellence in teaching and scholarship. Send curriculum vitae, statements of teaching and research interests, copies of undergraduate and graduate transcripts, samples of scholarly work, and three current letters of recommendation (under separate covers) to: **Dr. Steve Trombulak, Plant Biology Search Committee, Department of Biology, Middlebury College, Middlebury, VT 05753.** See website: www.middlebury.edu/~bio/plantbio.html for more details about the position. Closing date is 15 October. *Middlebury College is an Equal Opportunity Employer, and it encourages applications from women and members of minority groups.*

**Southwestern
University**

AT GEORGETOWN, TEXAS

DEVELOPMENTAL BIOLOGY POSITION

Southwestern University seeks candidates broadly trained in the field of developmental biology for a tenure-track position in the Department of Biology at the **ASSISTANT PROFESSOR** level. This position involves the teaching of introductory genetics (classical, molecular, and population), developmental biology, and other biology courses in a liberal arts setting. Candidates working with an animal system are preferred. The position requires excellence in teaching, a Ph.D. degree, and a willingness to participate in the department's undergraduate research program.

Southwestern University is a selective, undergraduate institution committed to broad-based liberal arts and sciences education. Affiliated with The United Methodist Church, it has over 1,200 students, and maintains an attractive 11/1 student/faculty ratio. Southwestern's endowment of more than \$275 million ranks among the highest per student of undergraduate institutions in the country. The University is located in Georgetown, Texas, in north suburban Austin.

Send a letter of application, curriculum vitae, description of teaching and other professional goals, and the names of three references to: **Biology Search Committee, Southwestern University, P.O. Box 770, Georgetown, TX 78626.** Deadline is November 3. *Southwestern University is committed to increasing the diversity of its faculty. Persons from underrepresented minority groups are encouraged to apply.*

**UNIVERSITY OF MISSOURI-COLUMBIA
CELL BIOLOGIST**

The Division of Biological Sciences at the University of Missouri-Columbia invites applications for a tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The successful applicant will use molecular methods to investigate basic problems in cell biology. We are particularly interested in individuals whose research interests complement those of our current faculty. Website: <http://www.missouri.edu/~biosciwww>.

The Division offers highly competitive salaries, generous start-up packages, modern research laboratories and support facilities, an active graduate program with institutional support for students and postdoctoral associates, and an interactive faculty. Send curriculum vitae, reprints, statement of teaching and research interests, and three letters of reference to: **Dr. John David, Chair, Division of Biological Sciences, University of Missouri, Columbia, MO 65211-7400.** Complete applications should be received by November 15, 1997. *The University of Missouri is an Equal Opportunity/Affirmative Action Employer. We are firmly committed to fostering ethnic and racial diversity on our faculty and strongly encourage applications from women and members of minority groups.*

ASSISTANT PROFESSOR—BIOCHEMISTRY. Loyola University of Chicago invites applications for a tenure-track position effective August, 1998. The candidate's potential as a teacher and a researcher is of primary importance. All areas of biochemistry will be considered, but molecular biology applications are of particular interest. The Department offers Ph.D., M.S., and ACS-approved B.S. degrees. The application should include a curriculum vitae, description of proposed research, and three letters of recommendation. Applications should be complete by November 15 will be accepted until the position is filled. Send materials to: **Biochemistry Search Committee, Department of Chemistry, Loyola University Chicago, 6525 North Sheridan Road, Chicago, IL 60626.** *An Equal Opportunity/Affirmative Action Employer.*

The Department of Biochemistry, Duke University Medical Center invites applications for a faculty position at the level of **ASSISTANT PROFESSOR.** We are especially interested in candidates with experience in the field of biological NMR as applied to fundamental problems of enzymology, protein structure, or nucleic acid biochemistry. Send résumé, summary of research interest, and three letters of reference to: **Christian R. H. Raetz, Chairman, Department of Biochemistry, Duke University Medical Center, Durham, NC 27710.** *Duke University is an Equal Opportunity/Affirmative Action Employer. Consideration of applications will commence in November 1997.*

**ASSOCIATE/ASSISTANT PROFESSOR
OF FOREST ECOSYSTEM SCIENCE**

The Department of Forest Ecosystem Science, University of Maine, is seeking to fill a newly created faculty position in the area of quantitative silviculture/forest science. Ph.D. in silviculture, forest ecology, or closely related field is required. This is a nine-month tenure-track position with a 90 percent research, 10 percent teaching appointment; the research component is jointly funded by the Department and the USDA Forest Service, Northeastern Forest Experiment Station's northern forest research work unit. The incumbent will work as part of a University of Maine-Northeastern Forest Experiment Station scientific team. The incumbent's primary role on that team is to develop a comprehensive research program in quantitative ecology and silviculture of northern forest ecosystems. The incumbent will initially focus on the long-term research underway at the Penobscot Experimental Forest in Bradley, Maine.

Applications will be accepted until October 15, 1997, or until a suitable candidate is found, and must include a letter of application, curriculum vitae, transcripts, up to three recent and significant reprints, and three letters of recommendation to: **Dr. Richard Jagels, Chair Search Committee, Department of Forest Ecosystem Science, 5755 Nutting Hall, University of Maine, Orono, ME 04469.** *The University of Maine is an Equal Opportunity/Affirmative Action Employer.*

PHYSIOLOGY

The Department of Biological Sciences at Mary Washington College is seeking a physiologist for a tenure-track appointment at the **ASSISTANT PROFESSOR** level beginning August 1998. Applicants are required to have a Ph.D. or equivalent terminal degree and must be committed to excellence in teaching. Previous teaching experience in human physiology is preferred. Preference will be given to investigators working at the systemic or organismal level.

Interested persons must submit a curriculum vitae, transcripts (unofficial acceptable), and brief statements of teaching philosophy and research goals and must arrange to have three letters of reference sent directly to: **Personnel Office, Mary Washington College, Box 615, Fredericksburg, VA 22401-5358.** Deadline for receipt of applications is October 24, 1997, by 5 p.m. Postmarks will not be honored. Further information about the college and the department can be found on our website: www.mwc.edu. *Mary Washington College is deeply committed to Affirmative Action and encourages minorities and women to apply.*

CELLULAR PHYSIOLOGIST

Tenure-track, **ASSISTANT PROFESSOR**, fall 1998. Ph.D. required. Broad training in physiology with expertise at the cell/tissue level. To teach anatomy and physiology, freshman cell biology, upper-division course(s) in specialty, and occasional participation in college-wide academic programs. Austin College is a selective liberal arts college with a biology faculty of eight. Review of applications begins October 20. Send curriculum vitae, statement of teaching philosophy and research interests (especially for work with students), graduate transcript(s), and three letters of reference to: **Dr. David Jordan, Vice President for Academic Affairs, Austin College, Sherman, TX 75090-4440.** Website: www.austinc.edu/Academics/Biology. *Affirmative Action/Equal Opportunity Employer.*

CELLULAR/MOLECULAR BIOLOGIST. ASSISTANT/ASSOCIATE PROFESSOR. Ph.D. required; postdoctoral and teaching experience preferred. Ability to involve undergraduates in research and to teach introductory biology, genetics, molecular biology, and course in one's specialty. Westmont is a Carnegie I Liberal Arts College, a Christian college stressing excellence in teaching, scholarship, and commitment to the Christian faith. Faculty contribute broadly to the character and mission of the College. Send curriculum vitae, one-page statement of educational philosophy, and description of research interests to: **Search Committee Chair, Department of Biology, Westmont College, Santa Barbara, CA 93108.** Review of applications will commence on 30 October 1997. *Women and minorities are encouraged to apply.*



**Nurse Scientists
Pre/Post Doctoral Trainees
Research Technicians**

**National Institute of Nursing Research
National Institutes of Health**

We are pleased to announce the appointment of Annette B. Wysocki, PhD, RN, as Scientific Director to develop and lead a program of clinical and basic research at the NINR, a component of the NIH.

With the revitalization of the intramural nursing research program, the NINR solicits applications for employment from scientists and students at all stages of career development. Several temporary and permanent positions are available in independent and guided research as well as in a number of technical and support positions. Candidates with degrees or experience in basic biomedical research are especially encouraged to apply.

These positions are located in Bethesda, MD, with salary commensurate with experience. Highly qualified candidates for these positions will be selected based on demonstrated expertise and experience commensurate with program goals. For consideration for these positions, please send us your curriculum vitae, a statement of your scientific interests, accomplishments, and potential contribution to the nursing research program or desired training goals. Address applications to NINR Personnel Office, 31 Center Drive MSC 2178, Bethesda, MD 20892.

Applications will be considered continuously through October 30, 1997.

For information about the NINR, visit our home page: <http://www.nih.gov/ninr>
NINR/ NIH is an Equal Opportunity Employer

EUROPEAN CAREER OPPORTUNITIES

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Information at the right place and time

is an important success factor for the years to come. Especially for us – a leading international chemical/pharmaceutical research company. Converting data to information for our scientists is a challenge we must face on a daily basis. You can join us as a **Scientific Assistant** (initially for a two-year period) and help us develop innovative pharmaceutical products.

Within an interdisciplinary team, you will support our effort to design and develop a new information system which structures and processes the results of our biological research. Modern computer devices such as VMS-computers by Digital and UNIX-servers by HP will form the basis for your development tasks under ORACLE.

Apart from a scientific degree with an emphasis on biology, we expect extensive practical knowledge in at least one modern programming language. Knowledge of statistics would be of advantage. You should have an outgoing personality with excellent interpersonal and communication skills and possess a strong affinity to teamwork.



If you want to be at the right place at the right time, you should send us your complete application as soon as possible. Mr. Geib from our personnel department (tel. 0049/6151/72-2507) and Dr. Hausberg from our research department (tel. 0049/6151/72-2440) will gladly answer any questions you might have.
Merck KGaA · Human Resources Pharma R&D · 64271 Darmstadt/Germany · Internet: <http://www.merck.de>

STAFF PHYSICISTS

The Materials Sciences Division at the **Ernest Orlando Lawrence Berkeley National Laboratory** has one-year appointments (possible renewal) for Staff Physicists to join its Center for X-Ray Optics' Nanofabrication and Diffractive Optics group. Utilizing/optimizing the 100kV, Nanowriter electron-beam lithography tool for optical, electrical and magnetic experiments, the selected candidates will help develop advanced micro/nanostructures. Responsibilities include supporting electronic device research with scaling and processing aimed at producing 25nm CMOS-type structures. You will also help develop the Nanowriter for ultra-high resolution and placement accuracy efforts.

Qualified candidates will possess extensive experience with electron beam lithography systems and micro/nanostructure fabrication technology. Proven expertise with various computer systems and applications is necessary, as is a background in electronic devices and processing. Prefer a Ph.D. in Electrical Engineering, Physics or Materials Science.

Please send resume and cover letter to: **Ernest Orlando Lawrence Berkeley National Laboratory, Staffing Office, Job #JSCI/5446, One Cyclotron Road, MS 938A, Berkeley, CA 94720. E-mail: employment@LBL.gov.** Berkeley Lab is an affirmative action/equal opportunity employer committed to the development of a diverse workforce.



FACULTY POSITION IN GEOPHYSICS

The University of Western Ontario

The Department of Earth Sciences, University of Western Ontario, invites applications for a tenure-track appointment (effective July 1, 1998) in Geophysics at the Assistant Professor level with specialization in the physics of Earth materials, including high pressure mineral physics. Interdisciplinary interests in other Geophysics fields (such as seismology, electromagnetics, etc.) would be an asset. Applicants should have a strong experimental and theoretical background in research focused on one or more of the following areas of experimental investigation: mantle, core, planetary interiors, physical or structural properties of minerals, rocks, and melts. The successful candidate is expected to develop vigorous, independent research programs that complement current Departmental activities in experimental mineral physics and chemistry, material science and petrology, and to interact with other geophysical disciplines in the Department. The successful candidate is also expected to teach customary undergraduate Geophysics courses, graduate courses in his or her areas of specialization, and to contribute to other Departmental programs.

The Department has eighteen faculty members (five in Geophysics), more than forty-five graduate students, and offers undergraduate and graduate programs in Geophysics, Geology, and Environmental Earth Sciences. The Department has a variety of specialized research facilities, including two cubic anvil presses of 200 and 1,000 ton capacity and ancillary physical property measuring equipment. State-of-the-art analytical equipment is available within the Department and elsewhere on campus.

Applicants, who hold the Ph.D. degree, or equivalent, should write to **Professor F.J. Longstaffe, Chair, Department of Earth Sciences, The University of Western Ontario, London, Ontario, CANADA, N6A 5B7** by **December 31, 1997**. Letters of application should include a full curriculum vitae, a statement not exceeding 500 words, explaining how his or her background and research interests qualify the candidate for this position, and the names, addresses, and telephone/fax numbers of at least three appropriate external referees.

Positions are subject to budget approval. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian Citizens and Permanent Residents of Canada. The University of Western Ontario is committed to employment equity, welcomes diversity in the workplace, and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disabilities.

DIRECTOR, OCEAN DRILLING PROGRAMS JOINT OCEANOGRAPHIC INSTITUTIONS (JOI)

Joint Oceanographic Institutions (JOI) is seeking a highly qualified scientist, with established scientific leadership and management skills, to fill the vacancy of Director, Ocean Drilling Programs. By agreement with the U.S. National Science Foundation (NSF), the Director is responsible for leading and administering the Ocean Drilling Program (ODP) on behalf of its 21 international partners. The Director is also responsible for the management of U.S. science programs affiliated with ODP. Candidates should note that the current phase of ODP is in the process of being renewed and will now run to 2003. Necessary minimum qualifications for the position include a Ph.D. in oceanography or geoscience; 15 years experience in research, with extensive project and/or program management experience; and a willingness to relocate to Washington, DC. Desirable additional qualifications include familiarity with the ODP and NSF program planning procedures; a desire to enhance cooperation between ODP and other international scientific initiatives; and a vision of how to involve a wider, international scientific community in the Program, both through the development of new partners and the integration of new scientific disciplines. *The position is open to citizens of any ODP member country; it requires extensive domestic and international travel; and is available from 5 January 1998.* An application letter, including a complete CV and names of 6 references, should be addressed to **Director of Administrative Services — DODP, Joint Oceanographic Institutions, 1755 Massachusetts Ave, N.W., Suite 800, Washington, DC 20036-2102**. Review of applications is expected to begin 27 October and will continue until the position is filled. *JOI is an Equal Opportunity Employer.*

Magainin Pharmaceuticals Inc.

... is a rapidly developing biopharmaceutical company engaged in R & D of pharmaceuticals against serious diseases. We are seeking post-doctoral scientists to join our molecular medicine group in the following 3 areas:

Post-Doctoral Fellow, Gene Discovery and Molecular Biology

Projects available in gene discovery and the functional characterization of novel genes at the cellular and molecular level. Submit CV to: **Nicholas Nicolaides, Ph.D.**

Post-Doctoral Fellow, Mouse Asthma Genetics and Immunobiology

Projects available in examining the function of new genes in airway inflammation and animal models of asthma. Submit CV to: **Roy Levitt, M.D.**

Post-Doctoral Fellow, Immunology

Experience in transcription regulation, signal transduction, and in situ hybridization is sought. Join a team of scientists exploring the biology and therapeutic potential of human antimicrobial peptides. Submit CV to: **Michael Zasloff, M.D., Ph.D.**

For consideration, please submit your resume to **Human Resources, Magainin Pharmaceuticals, Inc., 5110 Campus Drive, Plymouth Meeting, PA 19462**. MPI offers excellent compensation and benefits. EOE. No phone calls please. For further information, contact Kenneth Holroyd, M.D. at: kholroyd@magainin.com

Tenure-Track Positions Assistant Professor Equivalent

Molecular and Cellular Biology

The Laboratory of Molecular and Cellular Biology, NIDDK, is searching for a tenure-track investigator to develop an independent research program. Areas of expertise may include, but are not limited to, development, cell cycle control, gene regulation and transcription, RNA structure and function, and DNA replication, repair, and recombination. Investigators using biophysical techniques to study these problems are particularly encouraged to apply. The position provides salary and funding to establish an independent research program. Candidates should have a strong record of publications in peer-reviewed journals. Applications should be sent to: Dr. Robert Craigie, Chair, LMCB Search Committee, c/o Ms. Linda Hamilton (OE-130), NIDDK, Building 8, Room 309, 8 CENTER DR MSC 0840, BETHESDA MD 20892-0840. Deadline date is November 15, 1997.

Microbiologist/Virologist

A position is available in the Laboratory of Persistent Viral Diseases, NIAID, to develop an independent research program studying the pathogenesis of the transmissible spongiform encephalopathies (TSE). Opportunities for collaboration with other members of the current

TSE Research Group at the Rocky Mountain Laboratories will be available. Candidates should have a doctoral degree plus at least three years of postdoctoral research experience. This should include work on TSE diseases or viral diseases of the brain. Applications should be sent to: Chief, Administrative and Facilities Management Section (OE-130), NIAID, Rocky Mountain Laboratories, 903 South Fourth Street, Hamilton, MT 59840. Deadline date is October 17, 1997.

To Apply

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

WWW Site

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



National Institutes Of Health

Office Of Education

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

The NIH is an Equal Opportunity Employer

POSTDOCTORAL TRAINING AT FOX CHASE

Fox Chase Cancer Center in Philadelphia is seeking postdoctoral fellows with Ph.D. or M.D. degrees (or equivalent) to join research programs in
Biomolecular Structure and Function
Cellular and Developmental Biology
Cancer Biology
Immunology
Virology

Positions are available for our NIH Training Grants* and The Greenwald Fellowship for Leukemia and Lymphoma Research.

*Applications for NIH Training Grants are restricted to U.S. Citizens and Permanent Residents (Green Card).

To apply contact principal investigators listed on our web site: <http://www.fccc.edu/programs/postdoc>

Fox Chase Cancer Center, Postdoctoral Office
Phone: (215) 728-2467
Fax: (215) 728-3105
e-mail: postdoc@fccc.edu

Fox Chase Cancer Center is an Affirmative Action/Equal Opportunity Employer.



CHIEF, LABORATORY OF HEMOSTASIS

FDA, Center for Biologics Evaluation and Research, Office of Blood Research and Review, Division of Hematology is recruiting for a physician or scientist to serve as Chief of the Laboratory of Hemostasis. The laboratory chief is responsible for overseeing research programs that are focused on the safety, potency, purity, and efficacy of blood coagulation products. This position is also responsible for regulatory activities which include review of coagulation product license applications, investigational new drug applications, and other duties as assigned.

Qualifications: *U.S. Citizenship is required.* Applicants must be able to evaluate the safety, efficacy, and public health significance of blood products, demonstrate leadership and managerial ability, and deal effectively with government and industry officials and representatives of the scientific and academic communities.

Physicians: Applicants must have a Doctor of Medicine or Doctor of Osteopathy degree from an accredited institution and additional clinical and/or research training. Graduates of foreign medical schools must submit a copy of their Permanent Educational Commission for Foreign Medical Graduates (ECFMG) certificates.

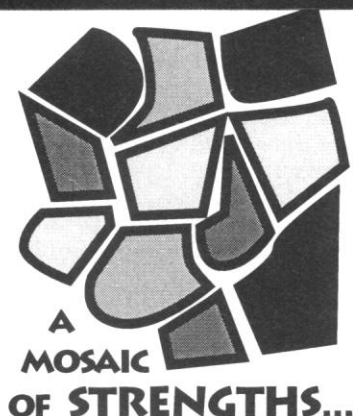
Scientists: Applicants must have an advanced degree in chemistry, immunology, molecular biology, or related field and additional research training.
Salary Range: Physicians: GS-14 (\$70,315 to \$88,396) per annum. Physicians may also be eligible for either a Physicians Comparability Allowance of \$4,000 to \$20,000 per annum, OR Physicians Special Pay up to \$148,400 based on experience, qualifications, and medical specialty. Scientists: GS-14 (\$64,555 to \$83,922) per annum. Salary, benefits, research support, and level of responsibility are commensurate with education and experience.

How to Apply: Please contact Ms. Green on 301-827-3518 for further information.

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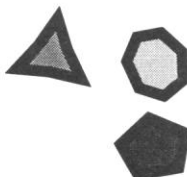
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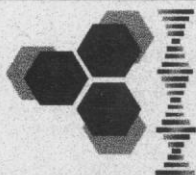
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Sr. Scientist/Scientist - will participate in vector discovery and development program. Ph.D. with minimum of 2-5 years postdoctoral experience and strong background in molecular virology of DNA/RNA viruses required. Demonstrated experience with adenovirus, AAV, or lentivirus vectors and construction of packaging cells for complementation of replication-defective viruses preferred.

Associate Scientist/Research Technician - will participate in molecular cloning and tissue culture experiments to support vector development and cell engineering programs. MS/BS with minimum of 2-5 years experience in recombinant DNA techniques and tissue culture required. Virology experience helpful.

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Dept. DG120 ■ GENOVO, INC. ■ 512 Elmwood Avenue ■ Sharon Hill, PA 19079

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Digene Corporation, a global manufacturer of DNA testing systems for the screening, monitoring, and diagnosis of human disease, seeks a Director of Systems Integration to work in our R&D facility in Silver Spring, Maryland.

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The ideal candidate will possess an advanced degree in Biology, Chemistry, or Electrical Engineering; 7-10 years in the IVD industry; proven experience with development resulting in the commercialization of IVD instrumentation integrating hardware, software, and assay reagents; and management experience in systems development in the IVD industry.

Competitive salary and benefits package. Please send résumé and salary requirements to:

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Larry Abbott, *Brandeis University*, Functional Roles for Short-Term Plasticity in Cortical Processing

Charles R. Cantor, *Boston University*, DNA Technology After the Human Genome Project

Joachim Frank, *Howard Hughes Medical Institute, Wadsworth Center, Albany*, Visualizing the Ribosome and its Functional Binding States by Cryo-Electron Microscopy

Christian Henn, *Silicon Graphics, Europe*, Smart MUVES: Real-Time Multi-User 3D Virtual Environments

Dov Jaron, *NCRR, National Institutes of Health*, Present and Future Opportunities in Computational Biomedicine

Sid Karin, *University of California, San Diego*, The Evolving Computing Continuum

Christof Koch, *California Institute of Technology*, In Search of Temporal Code Used by Nerve Cells

Karl Koehler, *National Science Foundation*, Present and Future Opportunities in Computational Biology

Raymond F. Salemme, *3-Dimensional Pharmaceuticals*, Serendipity Meets Design: The Synergy of Combinatorial Chemistry and Structure-Based Design for Drug Discovery

Richard M. Satava, *Yale University*, Virtual Reality and Telesurgery in the Future of Medicine

Joel L. Sussman, *Brookhaven National Laboratory*, Bridging the Gap Between 3D Structure and the Genome World

Richard Tapia, *Rice University*, Integrating Applications, Computation, and Technology into Education

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**University of Southern California
School of Medicine
Chair
Department of Psychiatry**

The University of Southern California is seeking candidates for the Position of **PROFESSOR** and **CHAIR** of the Department of Psychiatry. The successful candidate will be a major participant in a new neuroscience initiative. Responsibilities include a large and diverse clinical and teaching service and development of an academic neuroscience research program.

Candidates must hold the M.D. degree, certified in psychiatry, have a distinguished record of scholarship, administrative experience in an academic institution, and an ability to work collaboratively in a public and private mix of clinical facilities. Review of applications will begin on September 15 and continue until the position is filled. Applicants should send a copy of their curriculum vitae with references and other credentials to:

**Brian E. Henderson, M.D., Chair
Psychiatry Search Committee
University of Southern California School of Medicine
1441 Eastlake Ave., MS #44
Los Angeles, CA 90033**

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

**Tenure-Track Faculty Position In
Cellular/Development Neurobiology**

**Medical College of Wisconsin
Department of Cellular Biology and Anatomy**

A tenure-track faculty position at the Assistant Professor level is available for a neurobiologist that uses cellular, molecular, developmental, and/or genetic approaches. Competitive salary, laboratory space, and start-up funds are available. The program is currently expanding. Current strengths in the department are in cell and developmental biology with an emphasis on neurobiology and functional imaging. Individual programs in photoreceptor biology, color vision, functional imaging, cardiac development, differentiation of neural crest, muscle development and atrophy, early embryology of the mouse, and mitochondrial gene expression in visual cortex are already established. The successful candidate must show promise of establishing a distinguished research career using modern technical approaches and an ability to focus on fundamental questions central to the field of cellular/developmental neurobiology. It is expected that the successful candidate will contribute to a team-taught neurosciences course for medical students and participate in an interdisciplinary neurosciences graduate program. Ph.D. or M.D./Ph.D. (or equivalent) plus additional postdoctoral experience essential. Interested individuals should send résumé and the names of three references to:

**Dr. Joseph C. Besharse, Chairman
Department of Cellular
Biology and Anatomy
Medical College of Wisconsin
8701 Watertown Plank Road
Milwaukee, WI 53226**



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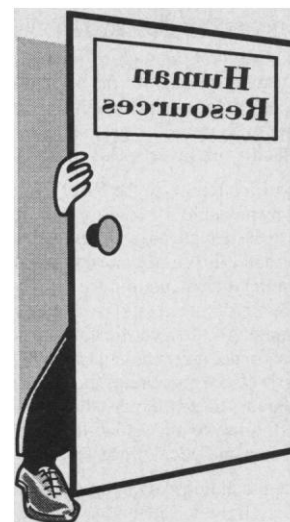
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We currently have a post-doctoral position available for a Protein Crystallographer to continue the studies on the membrane protein and cyclooxygenase-2 (COX-2). This protein is the target of nonsteroidal anti-inflammatory drugs (NSAIDs) such as aspirin and ibuprofen. The focus of our studies will be to understand the structural basis for the mechanism in inhibition and catalysis.

The qualified candidate will have a PhD in Chemistry, Biochemistry or a related discipline and should have experience in all aspects of protein crystallography. The successful candidate will be encouraged to publish and present the results of the studies. State-of-the-art X-ray facilities are available for protein structure determination at our World Headquarters in St. Louis, MO. We also have good access to synchrotron radiation facilities.

We offer a competitive compensation and benefits package. For consideration, please send your resume with a list of publications plus the addresses for three reference letters to: The Monsanto Company, Attn: R.G. Kurumbail, Job Code: PC, 700 Chesterfield Parkway North, Mail Code: BB4K, St. Louis, MO 63198 or email: rgkuru@monsanto.com. Visit our website at www.monsanto.com. EEO/AA Employer M/F/D/V.

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SENIOR SCIENTIST *Molecular Biology*

We seek a talented scientist with a strong background in molecular and cell biology to play a key role on a team studying molecular mechanisms of neurodegeneration. The successful candidate will conduct exploratory research designed to identify mechanisms of neuronal death in order to identify novel targets for therapeutic intervention. To qualify, you will need a PhD, at least 3 years of postdoctoral experience, a strong record of scientific achievement, and the ability to initiate and direct an independent research program. Background must include extensive experience in all common molecular biological techniques such as cDNA library construction and screening, polymerase chain reaction, and expression of cloned genes in prokaryotic and eukaryotic cells. Some familiarity with basic protein biochemistry techniques (enzyme kinetics, ELISA, immunoblotting, protein purification) would be a plus. A background in neurobiology would be helpful, but is not essential. To be considered for this position, please reference Dept. DD96-68-BG.

ASSOCIATE SCIENTISTS *Electrophysiology*

We seek highly motivated team players to become a part of a new and evolving electrophysiology laboratory using state-of-the-art technology to study the effects of novel compounds on nervous system function. To qualify, you will need a BS or MS degree in Pharmacology, Physiology or a closely related discipline along with excellent communication and organizational skills. Preference will be given to candidates with experience in a pharmaceutical environment and an established background or demonstrated interest in tissue culture and/or electrophysiological procedures. To be considered for these positions, please reference Dept. DD97-11-BG.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to apply on-line at <http://www.sp-research.com> or send a scannable resume and cover letter, original copy only, referencing the Dept. Code for your position of interest, to: Schering-Plough Research Institute, MS #1250, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. *We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.*



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We are looking for entry level scientists and engineers in several different fields. Student employment opportunities are also available. US citizenship is required. To apply, email your resume to recruit@nswc.navy.mil, subj: College Recruit. Submit in ASCII format.

Or, mail your resume and transcript to College Recruiting Coordinator, Human Resources Department, Dahlgren Division, Naval Surface Warfare Center, 17320 Dahlgren Road, Dahlgren, VA, 22448-5100.

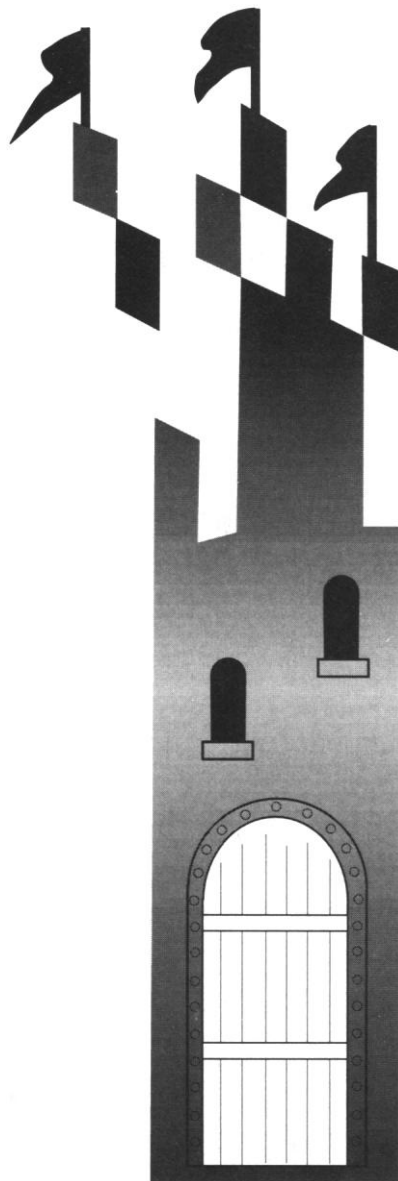
Questions? Call Vicki Warner at 800-352-7967, email to address above or visit our web site at www/nswc.navy.mil/P/RECRUIT/recruitl.html.

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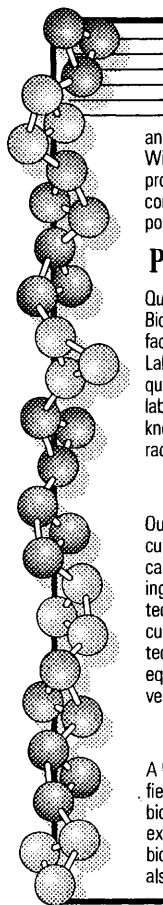


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Promega Corporation, headquartered in Madison, WI leads the world in biotechnical advances. Promega utilizes both local and international talent and innovation from its employees and its strong ties with the University of Wisconsin, Madison. The results of this devotion to quality yields high-value products and research to the life science industry worldwide. In order to continue our commitment to value and innovation, Promega has the following positions available:

PRODUCTION SCIENTIST-NAC/AMPLIFICATION

Qualified candidates will possess a BS/MS degree in Molecular Biology, Biochemistry, Microbiology or related field and 4+ years' experience in a manufacturing position within the areas of responsibility mentioned above. Laboratory experience using/troubleshooting PCR techniques, such as RT-PCR, quantitative PCR, primer design, in situ PCR or other amplification applications; laboratory experience in nucleic acid purification and cloning; a strong working knowledge of molecular biology techniques; and experience performing radioisotope-based assays are required.

TECHNICAL SERVICES SCIENTIST (TSS)

Our TSS provides technical support of Promega's complete product line to our customers throughout the world via phone, internet, e-mail and fax. Successful candidates will utilize and develop skills in a variety of professional areas including: technical training for internal and external customers, writing and editing technical literature, speaking at seminars and acting as a liaison between the customer and Marketing, Production and R&D Departments. A high level of technical knowledge, excellent customer service skills, a MS/BS degree or equivalent in a related area, 3+ years' related lab experience and excellent verbal and written communication skills are required.

PRODUCTION SCIENTIST-NAC

A BS/MS degree in Molecular Biology, Microbiology, Biochemistry or related field along with 4+ years' experience in a manufacturing position within the biotech industry are required. Chromatography experience; laboratory experience in nucleic acid purification; a working knowledge of molecular biology techniques; and experience performing radioisotope-based assays are also required.

PRODUCTION SCIENTIST-OLIGONUCLEOTIDE SYNTHESIS

A BS/MS degree in Chemistry or closely related discipline or appropriate background, 2+ years' experience in a manufacturing environment and HPLC (FPLC) experience are essential.

SENIOR PRODUCTION SCIENTIST-MCBR

This individual will manufacture and quality test components/kits and support new product transfer in in vitro translation product group. The chosen candidate will use the skills of project management, process mapping, problem solving, communication, team leadership and mentoring in the identification and implementation of system enhancements, improvements and process redesign in the in vitro translation product group. This individual will manage as well as set priorities for Translation Product Scientists.

A MS/Ph.D. in Molecular Biology, Microbiology, Biochemistry or related field and 3-4 years' post graduate experience in Manufacturing R&D or Quality Assurance in the areas mentioned above are required. Enzyme assay development and optimization for Molecular Biology applications (preferably more than one assay); a proven record of experimental design and problem solving in area of responsibility; outstanding organizational and multi-tasking skills; and previous team leadership experience are essential. When technical production training is completed after 6 months, you will assume team management responsibility.

Promega creates a supportive work environment by providing a balance between work and life activities. We offer an excellent benefits package including on-site fitness and day care facilities and flexible work arrangements. For consideration, please send resume and salary requirements to: **Promega Corporation, Human Resources, P.O. Box 7879, Madison, WI 53707-7879. E-mail: hr@promega.com.** To find out about other opportunities at Promega please call our Career Opportunities Line at **(800) 356-9526 option 9**.

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FACULTY POSITION IN NEUROSCIENCE

National Institute of Environmental Health Sciences
National Institutes of Health

The National Institute of Environmental Health Sciences (<http://www.niehs.gov/>) in Research Triangle Park, North Carolina is recruiting an investigator to carry out independent research in an expanding research program in the area of neuroscience. This is a tenure-track position in the NIH Intramural Research program with a competitive salary and start-up package. Preference will be given to applicants with less than seven years postdoctoral experience who are using molecular techniques to study neural problems at the cellular level. It is expected that problems will be chosen with the potential to identify or characterize environmental origins of human disease, within such areas as neural development, neurotoxicity or the genetics of neurodegenerative diseases; however, research excellence is the primary consideration. Excellent space and research support are available and will be commensurate with the rank at which the successful candidate is hired.

Applications from women and members of minority groups are particularly welcome. Applicants should submit a curriculum vitae, a list of publications, reprints of up to five representative publications, a summary of past research, a plan for future research, and arrange for three letters of reference to be sent by November 14, 1997 to: **Ms. Dara Trupe, Human Resource Management Branch, (HNV97-21), National Institute of Environmental Health Sciences, P O Box 12233, MD EC-11, Research Triangle Park, NC 27709; (919) 541-7513; e-mail: trupe@niehs.nih.gov**

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You will evaluate and generate new *in vivo* animal models and utilize existing models of inflammatory diseases. This will involve using your broad-based expertise in physiology, immunology, cell biology and biochemistry to characterize the mechanisms and effects of new therapeutics. Your 0-2 years of postdoctoral experience in Immunology, Pharmacology, Physiology or Biochemistry should be supported by 1-3 years of industrial/academic experience and specific skills working with *in vivo* animal models, immunology, FACS and inflammatory diseases. A broad knowledge of immune cell fractionation and adoptive transfer methodologies and their application in inflammatory disease models is required. Animal handling techniques and surgical skills are a must. Supervisory skills a plus.

Roche Bioscience offers a highly attractive salary, bonus plans, a full benefits package, plus a unique environment that rewards new ideas and courageous decision-making. If you would like to explore our opportunities firsthand, apply today by sending your resume to: Roche Bioscience, (Job Code: SC1919-KH), 3401 Hillview Avenue, A2-HR, Palo Alto, CA 94304. Fax 415/424-8159. We are an equal opportunity employer committed to workforce diversity.

You may also see us on the WWW at: <http://www.roche.com/bioscience>.

POSITIONS OPEN

The Cancer Center and The Department of Microbiology at Michigan State University offer a tenure-track position in carcinogenesis at the **ASSISTANT/ASSOCIATE PROFESSOR** level.

Outstanding applicants are sought who have a Ph.D. degree or equivalent, postdoctoral research experience, and a record of excellence in research. The successful applicant will be expected to establish a strong, extramurally funded research program in an area related to cancer genetics, cellular and/or molecular mechanisms underlying neoplastic transformation and/or tumor progression, or growth factor- or hormone-regulated growth control. A strong commitment to undergraduate and graduate education is essential, as is a willingness to interact and develop collaborations with other members of the Cancer Center faculty.

Michigan State University has made major commitments to its new Cancer Center, which currently has active research programs in carcinogenesis, breast cancer, and the control of gene expression and DNA replication. The academic appointment will be in the Department of Microbiology, and is available as of January 1, 1998. For interested candidates, a joint appointment in a clinical department can also be arranged. Salary will be commensurate with the qualifications and experience of the candidate, and a competitive package of start-up funds will be provided.

Applicants should send curriculum vitae, a complete list of publications and external research support, a description of research interests, relevant reprints and preprints, and have three reference letters sent by October 15, 1997, to: **Michele M. Fluck, Chair, Carcinogenesis Search Committee, Giltner Hall, Michigan State University, East Lansing, MI 48824-1101**. This position will remain open until filled.

Michigan State University is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.

CORNELL UNIVERSITY MEDICAL COLLEGE ASSISTANT/ASSOCIATE PROFESSOR POSITIONS IN STRUCTURAL BIOLOGY

As part of a major expansion in its basic biomedical sciences research programs, Cornell University Medical College is seeking faculty with expertise in X-ray crystallography (Assistant Professor) and NMR spectroscopy (Assistant or Associate Professor). We are especially interested in candidates with research interests related to membrane biology and/or signal transduction mechanisms. Exceptional candidates in other appropriate fields will also be considered. Candidates for Assistant Professor should demonstrate the potential for establishing a vigorous independent research program, and candidates for Associate Professor should have an outstanding record of productivity. The recruited faculty will occupy newly renovated laboratory and office space, and generous start-up support will be provided. In addition to medical student teaching, candidates will participate in the Graduate School of Medical Sciences program in biochemistry and structural biology which includes faculty from the Cornell University Medical College and the Sloan-Kettering Institute. Applications should include a curriculum vitae, statement of research interests, and the names and addresses of three references. Applications should be sent to: **Dr. Frederick R. Maxfield, Chairman, Structural Biology Recruitment Committee, Cornell University Medical College, 1300 York Avenue, New York, NY 10021**.

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DEPARTMENT OF PLASTIC SURGERY FULL-TIME FACULTY OPENING

University of Texas Southwestern Medical Center at Dallas, Department of Plastic Surgery, has a full-time faculty position in plastic surgery at the **ASSISTANT PROFESSOR**, tenure-track level available immediately. Requirements include a Ph.D. or M.D. with two to five years of postdoctoral research experience. Duties include establishment of active research program in the general field of genetics of advanced wound healing, obtaining long-term grant support for the program, and providing research instruction and supervision to students and residents. Departmental support for first two years. Established facility and trained technicians available. Send letter of intent and curriculum vitae to: **Rod J. Rohrich, M.D., Professor and Chairman, Department of Plastic Surgery, 5323 Harry Hines Boulevard, Dallas, TX 75235-9132**. *Equal Opportunity Employer.*

POSITIONS OPEN

ENVIRONMENTAL MICROBIOLOGY/ MICROBIAL ECOLOGY

The Department of Microbiology at the University of Tennessee, Knoxville, invites applications for a tenure-track **ASSISTANT PROFESSOR**. Candidates for the position should have a commitment to applying modern molecular techniques in the analysis of microbial populations and interactions in biogeochemical processes. The University community and the nearby facilities of industry, Oak Ridge National Laboratory, National Park Service, and the Tennessee Valley Authority offer unique opportunities for collaborative investigations. The appointee will be expected to become part of this interacting network. The successful applicant must hold a doctoral degree with at least two years of postdoctoral experience in modern molecular-based environmental microbiology and microbial ecology, demonstrated research productivity, and evidence of potential for excellence in teaching. Responsibilities include graduate and undergraduate teaching in environmental microbiology or microbial ecology, establishment of a productive, independent research program, and academic responsibilities normally associated with a tenure-track faculty position. The starting date is August 1998.

Applicants should submit a letter of interest accompanied by curriculum vitae, a description of research interests and career objectives, and the names, addresses, and telephone numbers of three individuals who can evaluate the applicant's qualifications for the position. All material should be sent to: **Dr. Gary S. Saylor, Chair of Search Committee, Department of Microbiology, The University of Tennessee, Knoxville, TN 37996-0845**. Telephone: 423-974-8080 for additional information. Nominations should be made as soon as possible; evaluation of applications will begin in December, 1997. *The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer. Applications from women and minorities are especially invited.*

BIOCHEMISTRY FACULTY POSITION UNIVERSITY OF COLORADO, BOULDER

The Department of Chemistry and Biochemistry invites applications for a tenure-track position in the Biochemistry Division. Preference will be given to candidates at the **ASSISTANT PROFESSOR** level, but candidates at all levels will be considered. Applicants must have a Ph.D. degree and enthusiasm for teaching biochemistry at the undergraduate and graduate levels. Candidates will be expected to develop an innovative research program in biochemistry. We particularly encourage applicants who study problems in signal transduction and cellular regulation or who utilize X-ray crystallography to investigate macromolecular function.

Applicants should submit a curriculum vitae and a statement of research interests and have three letters of reference sent to: **Dr. Thomas Cech, Chair, Biochemistry Search Committee, Department of Chemistry and Biochemistry, University of Colorado, Boulder, CO 80309-0215**. Applications should be marked "biological regulation" or "X-ray crystallography," if applicable. Applications will be evaluated beginning November 1, 1997, with a final application deadline of November 15, 1997.

The University of Colorado at Boulder strongly supports the principle of diversity. We are particularly interested in receiving applications from women, ethnic minorities, disabled persons, veterans, and veterans of the Vietnam era.

AQUATIC ECOLOGY. The Department of Biology, Kenyon College, invites applications for a tenure-track position in aquatic ecology. The successful candidate will teach in the introductory sequence for undergraduates; teach advanced aquatic biology and other topics in their field of expertise; and advise undergraduate, independent research projects. Kenyon provides start-up support and offers excellent field opportunities through access to a center for environmental study. Applicants should hold a Ph.D. degree and be able to demonstrate both teaching excellence and the potential to maintain research involvement by undergraduates. Statements of teaching and research interest, curriculum vitae, undergraduate and graduate transcripts, and three letters of reference should be sent directly to: **Search Committee, Biology Department, Kenyon College, Gambier, OH 43022**. Review of applications will begin 30 October.

An Equal Opportunity Employer, Kenyon affirms the values and goals of diversity; therefore, the applications of minorities and women are especially encouraged.

POSITIONS OPEN

EMORY UNIVERSITY SCHOOL OF MEDICINE ASSISTANT PROFESSOR DEPARTMENT OF BIOCHEMISTRY

Applications are invited for one or more tenure-track positions. The successful candidate will establish a vigorous, well-funded, and nationally recognized research program and will participate in medical and interdisciplinary graduate training. The successful candidate will have a strong foundation in chemistry, biochemistry, and molecular biology. Targeted areas for development include macromolecular interactions involved in cell cycle/apoptosis, molecular responses to nutrition and stress, and replication/recombination, but applications from highly qualified candidates in other molecular/structural areas are encouraged to apply. Current areas of strength in the Department include signal transduction, nucleic acid-protein interactions, oxidative metabolism, and enzymology. Emory University is a private institution located in suburban Atlanta with a college campus contiguous to the Medical School, a hospital system serving a population base of over 3 million, an outstanding faculty, a highly competitive student body, and a healthy endowment. The biomedical research programs occupy over 500,000 square feet of new or renovated research space and garner in excess of \$100 million per year in peer-reviewed research support. Applications should include the following: a current curriculum vitae with list of publications and a two- to three-page description of research plans. Applicants should arrange to have three letters of recommendation sent to: **Dr. Paul W. Doetsch, Search Committee, Department of Biochemistry, Emory University, Atlanta, GA 30322**. The deadline for applications is December 1, 1997. Additional information can be obtained at our website: <http://www.biochem.emory.edu>.

Emory University is an Equal Opportunity/Affirmative Action Employer.

TERRESTRIAL ECOLOGIST

The Appalachian Laboratory of the University of Maryland Center for Environmental Science (UMCES) solicits applications for a tenure-track **ASSISTANT PROFESSOR** to enhance its research initiative in landscape and watershed ecology. We are seeking a Terrestrial Ecologist who uses a combination of GIS, remote sensing, and modeling to understand population, community, or ecosystem processes at broad spatial scales. We are especially interested in applicants who study the effects of land use (history, pattern, or change) on the functioning, sustainability, or restoration of terrestrial ecosystems. The successful candidate must have completed a Ph.D. at the time of appointment, and must be able to generate external research funding. Applicants should be willing to collaborate with UMCES faculty in multidisciplinary research focused on the Chesapeake Bay watershed. While the main responsibility of this position is to conduct research, UMCES faculty also participate in graduate education.

Applicants should send a curriculum vitae, a statement of research and teaching interests, selected reprints, and a list of four references (name, address, telephone, FAX, and e-mail) by 30 October to: **John L. Hoogland, Chair of the Search Committee, Appalachian Laboratory, UMCES, Frostburg, MD 21532**. Telephone: 301-689-3115 x216; FAX: 301-689-8518; e-mail: hoogland@al.umces.edu.

UMCES is an Affirmative Action/Equal Opportunity Employer. We encourage women and minorities to apply.

ASSISTANT/ASSOCIATE PROFESSOR

Texas Tech School of Pharmacy invites applications for three positions within the Department of Pharmaceutical Sciences. These are 12-month positions as Assistant/Associate Professor in a tenure-track. We are seeking committed educators and experienced researchers with postdoctoral training in endocrine pathophysiology, endocrine pharmacology, or pharmaceuticals. Submit curriculum vitae; summary of research accomplishments and future goals; description of personal teaching philosophy; and names, addresses, and telephone numbers of three references to:

**Charles W. Fisher, Ph.D., Chair, Search Committee
Texas Tech University Health Sciences Center
School of Pharmacy
Department of Pharmaceutical Sciences
1300 South Coulter
Amarillo, TX 79106-1920**

Visit our website: www.ismo.ama.ttuhsu.edu or Telephone: 806-356-4000 ext. 2271.



VICE PRESIDENT FOR RESEARCH AND CREATIVITY, TECHNOLOGY TRANSFER, AND GRADUATE STUDIES

Nominations and applications are invited for the position of Vice President for Research and Creativity, Technology Transfer, and Graduate Studies at Montana State University-Bozeman. The Vice President is responsible for developing and maintaining a thriving environment for faculty and student research and creative activities within the university. The Vice President reports directly to the President and provides central leadership for the University's interest in all aspects of research, creative activities, technology transfer, and graduate education. The Vice President is expected to support innovative and nationally recognized programs, and to increase significantly the levels of external funding. Interested persons should request a vacancy announcement and application procedures from: **Sonja Moe, College of Agriculture, 202 Linfield Hall, Montana State University, Bozeman, MT 59717; Telephone: (406) 994-3681, Fax: (406) 994-6579, E-mail: smoe@montana.edu.** Screening of applications begins December 1, 1997, and will continue until a suitable candidate is hired. *ADA/EO/AA/Veterans Preference. Minorities and women are encouraged to apply.*

MEETING

CALL FOR POSTER ABSTRACTS AND PARTICIPANTS

Sixth International Congress on Platelet-Activating Factor and Related Lipid Mediators
The Sheraton New Orleans
New Orleans, LA

September 21-24, 1998

Sponsored by the LSUMC Neuroscience Center of Excellence

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For information, contact: Nicolas G. Bazan, LSUMC Neuroscience Center of Excellence, 2020 Gravier Street, Suite D, New Orleans, LA 70112; Phone: (504) 599-0832; Fax: (504) 568-5801; E-mail: nbazan@lsunc.edu.



Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Department of Genetics Vertebrate Geneticists

The Department of Genetics plans to hire one or more tenure track faculty members studying vertebrate genetics. Special consideration will be given to applicants using mouse or zebrafish experimental systems. Excellent opportunities exist in our department to interact with other scientists studying model organisms and with the Washington University Genome Sequencing Center.

Responsibilities include establishment of a strong and interactive research program and a commitment to graduate and/or medical student education.

Applicants should send a curriculum vitae and a statement of current and future research plans and arrange for the submission of three letters of reference by November 1 to:

Robert Waterston, M.D., Ph.D.
Search Committee
Department of Genetics
Box 8232

Washington University School of Medicine
4566 Scott Avenue
St. Louis, MO 63110



Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Department of Genetics Model Organism Geneticists

The Department of Genetics plans to hire one or more tenure track faculty members studying genetics in model organisms such as *Drosophila*, *C. elegans*, yeast, etc. Excellent opportunities exist in our department to interact with other scientists studying model organisms and with the Washington University Genome Sequencing Center.

Responsibilities include establishment of a strong and interactive research program and a commitment to graduate and/or medical student education.

Applicants should send a curriculum vitae and a statement of current and future research plans and arrange for the submission of three letters of reference by November 1 to:

Robert Waterston, M.D., Ph.D.
Department of Genetics Search Committee
Box 8232

Washington University School of Medicine
4566 Scott Avenue
St. Louis, MO 63110

RESEARCH SCIENTIST

Seeking an individual with a strong record of scientific achievement to develop an independent research program. Applicants with a Ph.D. and/or M.D. degree and current federal research support are strongly encouraged to apply. **Children's Hospital Oakland Research Institute (CHORI)** is a well-equipped basic research facility located on the campus of Children's Hospital Oakland. Current research programs encompass molecular biology, biochemistry, immunology, cell biology and mass spectrometry. CHORI offers a stimulating scientific environment with minimal teaching and administrative responsibilities and excellent compensation and benefits in an ideal geographic location. Send resume to: **Human Resources, Children's Hospital Oakland, 747 52nd Street, Oakland, CA 94609, e-mail: cho.per.dki@cho.org, FAX (510) 428-3306. EOE**

Children's Hospital Oakland

*The pediatric medical center
for Northern California*

POSITIONS OPEN

PLANT CELL BIOLOGY, BIOCHEMISTRY, OR PHYSIOLOGY

The Department of Plant Sciences at The University of Western Ontario is seeking applicants with research interests in plant cell biology, biochemistry, or physiology to fill a tenure-track **ASSISTANT PROFESSOR** position beginning July 1, 1998 (negotiable).

We require a Ph.D. and appropriate postdoctoral training, a proven research record including publications of high quality, the ability to work well with others, demonstrated teaching ability, and enthusiasm and ideas that will excite and inspire students. The successful candidate will be expected to develop a vigorous and innovative research program, well supported by external funding, and to contribute to the department's excellence in graduate and undergraduate teaching.

Further information about the department and the position can be found at website: <http://www.uwo.ca/plantsci/>.

Applications including a curriculum vitae and copies of recent significant papers should be forwarded to: **Dr. A. W. Day, Chair, Department of Plant Sciences, The University of Western Ontario, 1151 Richmond Street, London, Ontario N6A 5B7 Canada. Telephone: 519-661-2111 ext. 6465; FAX: 519-661-3935.** Please provide the names and addresses of three external referees who would be willing to assess your work and abilities. Applications will be accepted until December 31, 1997, or until a suitable candidate is found.

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

CENTRAL MICHIGAN UNIVERSITY FISHERIES BIOLOGIST AND DEVELOPMENTAL BIOLOGIST (TWO POSITIONS)

The Department of Biology at Central Michigan University invites applications for two ten-month tenure-track **ASSISTANT PROFESSOR** positions in (1) fisheries biology/ichthyology and (2) developmental biology/embryology to begin August, 1998. A Ph.D. is required; postdoctoral experience is preferred. Each candidate will be expected to teach introductory undergraduate and graduate-level (M.S.) courses in their discipline, establish an active research program, and seek extramural funding. Preference will be given to applications received prior to November 1, 1997. Send curriculum vitae, statement of teaching interests, research objectives, graduate and undergraduate transcripts, and three letters of reference to: **Fisheries or Developmental Biology Search Committee, Department of Biology, Central Michigan University, Mt. Pleasant, MI 48859. FAX: 517-774-3462.**

Central Michigan University (Affirmative Action/Equal Opportunity Institution) encourages diversity and resolves to provide equal opportunity regardless of race, sex, disability, sexual orientation, or other irrelevant criteria.

VERTEBRATE PHYSIOLOGIST

The Trinity College Department of Biology invites applications for a tenure-track position at the level of **ASSISTANT PROFESSOR** to begin in the fall term, 1998. Applicants must have a Ph.D. in the area of vertebrate physiology (postdoctoral experience is preferred, but not required) and a record of teaching and scholarship. Annual teaching duties include a comparative vertebrate physiology course and participation in the team-taught introductory biology course; in addition, it is expected that an advanced course in the applicant's area of interest and a course for non-majors will be offered in alternate years. The candidate should pursue a program of research in which upper-level undergraduate students may participate. Excellent facilities and start-up funds are available. Send a curriculum vitae, statements of teaching philosophy and of current research interests, and undergraduate as well as graduate transcripts, and have three letters of recommendation forwarded to: **Craig W. Schneider, Chair, Department of Biology, Trinity College, Hartford, CT 06106.** Evaluation of applications will begin 15 October 1997 and continue until the position is filled. *Trinity College is an Equal Opportunity/Affirmative Action Employer and actively seeks applications from minorities and women.*

POSITIONS OPEN

INSECT NEUROBIOLOGIST

The University of California at Berkeley, Division of Insect Biology within the Department of Environmental Science, Policy and Management, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level with concurrent appointment as an **ASSISTANT ENTOMOLOGIST** in the Agricultural Experiment Station. This ladder-rank appointment will be on a nine-month basis and is available July 1, 1998.

Applicants must have a doctoral degree and an excellent record of scientific productivity and research in some area of insect neurobiology. A strong background in entomology is preferred. The successful applicant is expected to be an active participant of the Division of Insect Biology and committed to its undergraduate and graduate teaching programs. In particular, the appointee will teach a survey course in cellular and developmental biology, a graduate seminar in their field of specialty, and provide professional and academic leadership to Master's and Ph.D.-level graduate students. Researchers with an emphasis in sensory or motor systems physiology, neuroethology, or the molecular basis of learning are encouraged to apply.

Interested persons should apply by submitting a curriculum vitae, a statement of research interests, statement of teaching interests and experience, copies of recent publications, and the names of three references (names, telephone numbers, and postal and e-mail addresses) to:

**Professor Mark Tanouye, Chair
Insect Neurobiology Search Committee
ESPM—Division of Insect Biology
201 Wellman Hall
University of California
Berkeley, CA 94720-3112**

The closing date for applications is October 31, 1997. *The University of California is an Equal Opportunity Affirmative Action Employer.*

THE JOHNS HOPKINS UNIVERSITY ASSISTANT PROFESSOR CELL BIOLOGY

The Department of Biology, The Johns Hopkins University invites applications for a tenure-track faculty appointment in the area of cell biology, broadly conceived. Regardless of area of research, we are only interested in applicants of the highest caliber who use molecular and mechanistic approaches to solve problems in cell biology. The successful candidate will be expected to establish a vigorous research program and to participate in undergraduate and graduate teaching in cell biology.

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

Applicants should submit a curriculum vitae (including the names and addresses of three references) together with a statement of current and planned research, and arrange to have three letters of recommendation sent to:

**Dr. Michael Edidin, Chair
Search Committee in Cell Biology
Department of Biology
The Johns Hopkins University
3400 North Charles Street
Baltimore, MD 21218**

Deadline for Receipt of Applications is November 14, 1997.

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

Biochemistry. Tenure-track, **ASSISTANT/ASSOCIATE RANK**—fall 1998. Ph.D. in chemistry or biochemistry is required, postdoctoral experience preferred. A strong preference will be given to candidates with a research emphasis in biochemical aspects of one of the following: immunochromatography, molecular biology, or biological membranes. Candidate is expected to establish an independent research program involving undergraduate and Master's level students. Teaching will be primarily in upper division lecture/laboratory and graduate biochemistry courses. Awareness of and sensitivity to the educational goals of a multicultural population. Preferred: Cross-cultural experience and/or training. Review of applications will begin after October 31, 1997. Send curriculum vitae, transcripts, statements of teaching interests/philosophy and research plans, and have three letters of recommendation sent to: **Chair, Department of Chemistry, San Jose State University, San Jose, CA 95122-0101.** Please reference PVIN SCI 98-029. *Minorities and women are strongly encouraged to apply. San Jose State University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

PLANT BIOLOGY UNIVERSITY OF UTAH

The Department of Biology at the University of Utah seeks to add two faculty in plant biology to complement and strengthen our existing program in plant sciences. The search will be divided into two broad categories: molecular and cellular plant biology and organismal plant biology. Individuals whose interests span these two areas are particularly welcome. The preferred rank is at the **ASSISTANT** or **ASSOCIATE PROFESSOR** levels and positions are available beginning July 1, 1998.

The existing plant biology faculty include strengths in cell biology, developmental biology, genetics, photosynthesis, water relations, and ecology. The successful candidates are expected to strengthen the research capacity of plant sciences in a broad sense, while complementing existing programs. More information about plant biology and the department is available through the Internet at website: <http://www.biology.utah.edu>.

Interested applicants should send to the most appropriate search committee listed below: a curriculum vitae, a statement which includes both research and teaching interests, and names of three individuals who can evaluate the candidate's research. The search will remain open until the positions are filled, but we anticipate beginning to review completed applications on November 1, 1997.

**Darryl Kropf
Molecular and Cellular Plant Biology Search
or
Jim Ehleringer
Organismal Plant Biology Search
Department of Biology
University of Utah
Salt Lake City, UT 84112**

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

The University of Wisconsin-Madison, Department of Psychology, anticipates an **ASSISTANT PROFESSOR** appointment in behavioral/cognitive neuroscience or animal behavior. Candidates who complement department interests in social, developmental, cognitive/perceptual, or affective processes are encouraged to apply. New faculty will have the opportunity to capitalize on links to zoology, the Center for Neuroscience, the Wisconsin Regional Primate Center, and a new initiative in functional brain imaging and behavior.

Application deadline is December 1, 1997. Candidates should submit a letter of application, at least three letters of recommendation, a curriculum vitae, and selected reprints to: **Behavior/Cognitive Neuroscience or Animal Behavior Search Committee, Department of Psychology, University of Wisconsin-Madison, 1202 West Johnson Street, Madison, WI 53706-1611.** *The University of Wisconsin-Madison is an Equal Opportunity/Affirmative Action Employer and especially encourages women and minorities to apply. Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality.*

ASSISTANT PROFESSOR, INORGANIC CHEMISTRY. California State University, Long Beach, invites applications for a tenure-track position beginning August, 1998. Applicants must have a Ph.D. in inorganic chemistry or a closely related area and a demonstrated potential for effective teaching and for developing an independent, externally funded research program involving undergraduate and Master's students. Postdoctoral experience preferred. To apply, submit a letter of application, a résumé, and a statement of research and teaching interests, and have official transcripts from undergraduate and graduate institutions and three letters of recommendation sent by December 4, 1997, to: **Dr. Henry Po, Chair of Inorganic Search Committee, Department of Chemistry and Biochemistry, California State University, Long Beach, CA 90840-3903. FAX: 562-985-8557.** *California State University, Long Beach, is an Equal Opportunity/Affirmative Action/Title IX Employer.*

The Department of Psychology, Northwestern University, invites applications for a tenure-track **ASSISTANT PROFESSORSHIP** in the area of cognitive neuroscience to begin September 1998. Qualifications include outstanding research and teaching ability. Candidates should send a statement of research (program/plans), curriculum vitae, copies of recent publications, and three letters of recommendation to: **Cognitive Neurosciences Search Committee, Department of Psychology, Northwestern University, Evanston, IL 60208-2710 USA.** *Affirmative Action/Equal Opportunity Employer. Applications from women and minority candidates are especially welcome.*

CONFERENCE



Conference sponsored by
The Genetics Society of America
April 16-19, 1998
Airlie House Conference Center
Warrenton, Virginia

Chairpersons: Tom Petes, Richard Kolodner,
Scott Hawley and Nancy Craig

The conference will elucidate research on widely divergent organisms and different DNA repair systems. The purposes are:

1) to encourage comparisons among DNA repair systems in different organisms, both similarities and enlightening differences, 2) to understand the nature of DNA lesions that can be repaired by more than one DNA repair system, 3) to understand the function of proteins that participate in more than one DNA repair pathway, and 4) to analyze the relationship between human disease and defects in DNA repair.

Topics and speakers include:

● **Induction of DNA Repair** - Susan Rosenberg, Graham Walker, Mike Kastan, Scott Hawley ● **Checkpoints and DNA Repair** - Ted Weinert, Doug Bishop, Tamar Enoch, Thea Tlsty ● **DNA Mismatch Repair** - Tom Kunkel, Paul Modrich, Mike Liskay, Joe Jiricny, Richard Kolodner ● **Recombination and Repair** - Jim Haber, Lorraine Symington, Nancy Kleckner, David Weaver, Rod Rothstein, David Livingston ● **DNA Repair and Human Diseases** - Steve Meyn, Jan Hoeijmakers, Marty Gellert, Sandy Markowitz, Christophe Lengauer ● **Nucleotide and Excision Repair** - Errol Friedberg, Louise Prakash, Leona Samson, Isabell Mellon

Additional speakers will be selected from the abstracts.

The conference is limited to 200 conferees.

● Information available on the Web at <http://www.faseb.org/dna97>.

Abstracts should be submitted at this site.

For additional information or requests for conference materials, contact Elaine Strass, Executive Director, The Genetics Society of America, 9650 Rockville Pike, Bethesda, Maryland 20814-3998, (301) 571-1825, fax: (301) 530-7079, e-mail: estrass@genetics.faseb.org

● **Deadline for abstract submission, registration and housing:**
December 15, 1997



UCLA TENURE-TRACK FACULTY POSITION NEUROPHYSIOLOGY

The Department of Physiology at UCLA School of Medicine invites applications for a tenure-track faculty member in the general area of neurophysiology. While the focus of our search is in the areas such as development, information processing, and plasticity in the mammalian central nervous system, we will consider candidates in other areas of biophysics and physiology. Candidates are required to have a Ph.D. and/or M.D. degree, show evidence that they can develop an independent research program with extramural support, and are expected to participate fully in the teaching mission of the Department. An excellent environment exists within the Department and School to build a highly successful academic career. This includes newly remodeled research space, set-up funds, and other active research programs in biophysics and cellular, molecular, and systems physiology. Visit our website: <http://www.medsch.ucla.edu/som/physio>. Applicants should send a letter with a statement of research interests and goals, the names of three references, and their curriculum vitae to:

Chair, Neurophysiology Search Committee

Department of Physiology

UCLA School of Medicine

Los Angeles, CA 90095-1751

Fax: (310) 206-5661

E-mail: dmoorehe@physiology.medsch.ucla.edu

Review of applications will continue until a suitable candidate has been identified.

STRUCTURAL BIOLOGY Faculty Position

Several tenure-track positions at the Assistant Professor level have been allocated for our ongoing structural biology initiative. This program, with state-of-the-art facilities for x-ray crystallography and computational biology, will be housed in a new research building, the Center for Molecular Medicine. A close working relationship is envisioned between the Stony Brook faculty and scientists based at Brookhaven National Laboratory and Cold Spring Harbor Laboratory.

Two faculty have recently been recruited in the area of x-ray crystallography. An additional crystallographer is sought whose research interests may include, but are not restricted to, the use of structure-based approaches to study signal transduction. The successful candidate is expected to have or to establish an externally-funded research program and to participate in the teaching activities of the Dept. of Physiology and Biophysics. A Ph.D. degree and postdoctoral research experience are required. Salary commensurate with qualifications and experience.

A curriculum vitae, list of publications, description of research interests, and names of four referees, should be sent to: Search Committee Chair, Dept. of Physiology and Biophysics, State University at Stony Brook, Stony Brook, New York, 11794-8661. Fax: (516) 444-3432, e-mail: MBonnette@epo.hsc.sunysb.edu. Priority deadline is January 3, 1998. An AA/EEO employer.

**STONY
BROOK**
STATE UNIVERSITY OF NEW YORK

Cancer Genetics Albert Einstein Cancer Center

The Albert Einstein Cancer Center, one of the first NCI-funded centers in the US, along with the School of Medicine, has initiated a major expansion focused on basic and translational research programs. We are seeking faculty at the Assistant to Full Professor level who have an outstanding record of research accomplishments. Preferred research areas include human cancer genetics and mouse models of cancer.

The Albert Einstein College of Medicine is located in a suburban neighborhood in New York City, minutes from Westchester County, and it provides a highly interactive research environment. Faculty will be appointed to a basic science department and will occupy newly renovated laboratory space which is strongly supported by shared resources including transgenic and gene targeting facilities, structural biology, cytogenetics, DNA and protein chemistry and digital imaging capabilities. Competitive salaries and start-up packages are provided. Please send curriculum vitae and three letters of reference to: **Dr. Jeffrey Pollard, Chair, Recruitment Committee, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, Cancer Center, Chanin 208, 1300 Morris Park Avenue, Bronx, NY 10461. EOE.**

**ALBERT EINSTEIN
COLLEGE OF MEDICINE**

Toward the
advancement of medicine
...and your career



Assistant Professor Department of Neurobiology

The Department of Neurobiology invites applications for positions at the level of Assistant Professor. Candidates must hold the degree of Ph.D. or M.D. and have a minimum of two years of postdoctoral research experience. The department's goal is to create a diverse and interactive research environment that includes individuals with expertise in ion channel biophysics, imaging, synaptic transmission, and other aspects of cellular neurophysiology.

We thus encourage applications from individuals who will develop strong, independent research programs who are also interested in an exchange of ideas and information among scientists taking diverse approaches to the study of the function of ion channels, neuronal local circuitry and synaptic physiology. We are especially interested in women and minority candidates.

Applicants should send a curriculum vitae, a brief statement of research accomplishments and plans, and the names of three individuals who might write on their behalf, before October 31, 1997, to:

David Clapham, M.D., Ph.D.
Department of Neurobiology
Harvard Medical School
220 Longwood Avenue
Boston, MA 02114

*Harvard Medical School is an Equal
Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR. The Department of Cell Biology and Anatomy in the Faculty of Medicine and Oral Health Sciences at the University of Alberta invites applications for a tenure-track position as Assistant/Associate Professor. We are looking for an individual who will complement our existing strengths in neurobiology, cell signaling, protein targeting and organelle biogenesis, and cell-cell interactions. Salary range: \$39,230 to \$69,664 per annum, plus comprehensive benefits. Applicants should have proven records of research achievement and be eligible for funding by the Alberta Heritage Foundation for Medical Research. The successful candidate will be expected to carry on an independent research program, but will also have the opportunity for collaborative interactions with several multidisciplinary research groups within the University. A contribution to the Department's teaching program will also be expected. *In accordance with Canadian immigration requirements, priority will be given to Canadian citizens. If suitable Canadian citizens and permanent residents cannot be found, other individuals will be considered.*

Please send a curriculum vitae, a one-page statement of research interest, and arrange to have three to five letters of reference sent on your behalf to: **Dr. Richard Rachubinski, Professor and Chair, Cell Biology and Anatomy, University of Alberta, Edmonton, Alberta T6G 2H7 Canada.** Deadline for receipt of applications is October 31, 1997. *The University of Alberta is committed to the principle of equity in employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.*

ASSISTANT PROFESSOR MOLECULAR TOXICOLOGY THE UNIVERSITY OF TEXAS AT AUSTIN

Applications are invited for one tenure-track position at the level of Assistant Professor. We are seeking an outstanding individual who will establish a vigorous research program in mechanistic molecular toxicology. The ability to interface with existing faculty through our NIEHS Training and Center grants is highly desirable. Applicants will be expected to attract extramural funding and to participate in the teaching of pharmacy and graduate students. A Ph.D. and a minimum of two years of postdoctoral experience are required. Applicants should provide a letter outlining their specific research interests; a complete curriculum vitae; and the names, addresses, telephone numbers, and e-mail addresses of three references. Reply to: **James P. Kehrer, Ph.D., Division of Pharmacology and Toxicology, College of Pharmacy, The University of Texas at Austin, Austin, TX 78712.** E-mail: kehrerjim@mail.utexas.edu. Deadline for receipt of applications is November 1, 1997. Additional information about the program and faculty may be found at: [web-site: http://www.utexas.edu/pharmacy/divisions/pharmtox](http://www.utexas.edu/pharmacy/divisions/pharmtox). *The University of Texas is an Equal Opportunity Employer.*

EVOLUTIONARY BIOLOGIST

The Department of Environmental, Population, and Organismic Biology seeks a tenure-track Evolutionary Biologist, at the **ASSISTANT PROFESSOR** level, who employs rigorous methods of phylogenetic analysis to address fundamental problems in systematic or comparative biology. Applicants must submit a curriculum vitae, names of four referees, statements of research and teaching interests, and an e-mail address to: **Jeff Mitton, Department of Environmental, Population, and Organismic Biology, University of Colorado, Boulder, CO 80309-0334.** Applications must be received no later than November 14. *We strongly support the principle of diversity. Applications from women, ethnic minorities, disabled persons, veterans, and veterans of the Vietnam era are appreciated.*

California Institute of Technology invites applications for a tenure-track position as **ASSISTANT PROFESSOR** in the field of inorganic chemistry. The initial appointment will be for four years. Outstanding candidates with a Ph.D. and a strong commitment to research and teaching excellence are encouraged to apply. Submit curriculum vitae, publication list, a description of proposed research, and three letters of recommendation to: **Professor J. K. Barton, Inorganic Chemistry Search Committee, M/C 127-72, California Institute of Technology, Pasadena, CA 91125.** Applications should be received by November 15, 1997. *The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.*

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR DEPARTMENT OF ANATOMY AND NEUROBIOLOGY Dalhousie University Halifax, Nova Scotia

The Department of Anatomy and Neurobiology at Dalhousie University is seeking applications for a tenure-track position to commence July 1998. Candidates must have a Ph.D. or equivalent and have undertaken at least two years of postdoctoral training. The candidate is expected to contribute to the Department's undergraduate and graduate teaching programmes, preferably in gross anatomy, neuroanatomy, histology, or embryology. The candidate for the position will be expected to carry out vigorous and externally funded independent research. The successful applicant will be required to compete for peer-reviewed MRC or equivalent salary support under the sponsorship of the Department. Current research activities within the department include neurobiology, functional morphology, and cell biology. More information concerning research activity in the Department can be found at [website: http://www.anatomy.dal.ca](http://www.anatomy.dal.ca). Applications should include a curriculum vitae, representative reprints, a summary of present research activities, an outline of future research directions, and the names of three referees. Please apply to: **Dr. D. A. Hopkins, Professor and Head, Department of Anatomy and Neurobiology, Faculty of Medicine, Dalhousie University, Halifax, Nova Scotia B3H 4H7 Canada.** The application deadline will be December 30, 1997. *In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.*

Dalhousie University is an Employment Equity/Affirmative Action Employer. The University encourages applications from qualified women, aboriginal peoples, racial minorities, and persons with disabilities.

CALIFORNIA LUTHERAN UNIVERSITY FLETCHER JONES ENDOWED CHAIR IN BIOLOGY

California Lutheran University invites applications for the newly established Fletcher Jones Chair in Biology endowed by the Fletcher Jones Foundation and to begin in the fall of 1998. The University seeks applicants in the field of developmental biology with strengths in genetics, biochemistry, molecular biology, or cell biology. The appointment will be made at the **ASSOCIATE** or **FULL PROFESSOR** level. Demonstrated excellence in undergraduate teaching and in research is required. Responsibilities include teaching one course with laboratory each semester, directing the Senior Research program, and sustaining a personal program of research involving undergraduates. Send letter of application, curriculum vitae, and names of references to: **Dr. Pamela Jolicœur, Provost, California Lutheran University, 60 West Olsen Road, Thousand Oaks, CA 91360.** Review of applicants will begin on December 1 and continue until the position is filled. *Equal Opportunity Employer.*

Full-time tenure-track faculty positions are available for individuals who have broad expertise in microbiology and/or immunology with an emphasis on molecular mechanisms. Positions are primarily at the **ASSISTANT** and **ASSOCIATE PROFESSOR** levels. Successful candidates will have a Ph.D. or equivalent, a record of outstanding research achievement, and a demonstrated ability to attract external funding. Applicants should send a curriculum vitae, copies of their two most significant publications, brief descriptions of present and future research, and the names of three to five individuals from whom recommendations can be obtained to: **Dr. L. Gartner, Chair Search Committee, Department of Oral and Craniofacial Biological Sciences, Dental School, University of Maryland, 666 West Baltimore Street, Baltimore, MD 21201.** *The University of Maryland is an Affirmative Action/Equal Employment Opportunity/ADA Employer.*

A **RESEARCH ASSOCIATE** position is available immediately to perform research on shrimp genomics. The research is aimed at mapping QTLs involved in resistance to viral diseases in shrimp. Applicants should have a Ph.D. in animal genetics and at least two years of postdoctoral experience with at least two of the following: mRNA differential displays, microsatellites, linkage and QTL mapping analyses, transcription assays, and/or *in situ* hybridization. Please send your curriculum vitae to: **Dr. Acacia Alcivar-Warren, Tufts University School of Veterinary Medicine, 200 Westboro Road, North Grafton, MA 01536.** Telephone: 508-839-7970; FAX: 508-839-7091; e-mail: aalcivar@opal.tufts.edu.

POSITIONS OPEN

POPULATION BIOLOGY FACULTY POSITION

The Center for Environmental Research and Conservation (CERC), a biodiversity education, training, and research consortium of Columbia University, the American Museum of Natural History, The New York Botanical Garden, the Wildlife Conservation Society, and Wildlife Preservation Trust International, invites applications for a multiyear term appointment as an **ASSISTANT PROFESSOR**. The successful candidate should utilize methods of demography, population genetics, and quantitative modeling to explore population dynamics and model the conservation of endangered species or communities of organisms. CERC has more than 50 faculty across five institutions engaged in research on the evolution, morphology, genetics, ecology, behavior, and conservation of plants and animals, as well as on the political, economic, and cultural contexts in which conservation policy must be implemented. The faculty, students, and facilities available through CERC, the Columbia Earth Institute, which includes many of Columbia's environmental initiatives, and CERC's international affiliates provide a rich educational and research environment. The successful candidate will be expected to teach undergraduate and graduate courses, advise students at both levels, and engage in original research. Interested applicants should submit a curriculum vitae, brief description of teaching and research interests, and three letters of reference to: **Population Biology Search Committee, CERC, Columbia University, Mail Code 5556, 1200 Amsterdam Avenue, New York, NY 10027.** Review of applications will begin on October 22, 1997. *An Equal Opportunity/Affirmative Action Employer.*

ENVIRONMENTAL STUDIES EMORY UNIVERSITY GEORGIA

Environmental studies: teaching position. The Human and Natural Ecology Program, Emory University, invites applications for a teaching position at the **ASSISTANT PROFESSOR** rank for a non-tenure-track, 18-month term beginning in January 1998, with a possibility of renewal. A Ph.D. degree is necessary. The successful applicant should have training in environmental studies, an interdisciplinary view on environmental problems, ideally with a focus on quantitative approaches to natural resource issues. Ability to collaborate across disciplines, familiarity with computers for teaching and communication, and excellent teaching skills are required. The ideal candidate will have used case-based teaching in undergraduate courses. Responsibilities include teaching introductory and advanced undergraduate courses in environmental studies, advising students, and some administrative tasks. Send curriculum vitae, a letter addressing how you meet our criteria, a statement of teaching philosophy, and three letters of recommendation to: **Dr. Paula J. S. Martin, Human and Natural Ecology Program, Emory University, 625 Rollins Way, Atlanta, GA 30322.** Closing date October 15, 1997. *Emory University is an Equal Opportunity, Affirmative Action Employer.*

SENIOR SCIENTIST

The International Life Sciences Institute (ILSI) Health and Environmental Science Institute, a nonprofit scientific institute, seeks a Senior Scientist with scientific consulting/association background and understanding of basic toxicology, risk assessment, and regulatory issues. Position requires experience in all aspects of committee management, research project development and management, literature review, technical writing, conference organization, minute writing, monitoring and preparing budgets, and correspondence and reports. Master's degree in scientific field such as chemistry, toxicology, or environmental health required. Send résumé and salary history to: **Human Resources, ILSI, 1126 Sixteenth Street N.W., Washington, DC 20036.** E-mail: rboyce@ilsi.org; FAX: 202-659-3859.

Equal Opportunity Employer/Minorities, Females.

The Department of Biology, University of Puerto Rico (UPR), Río Piedras invites applications for a tenure-track **ASSISTANT PROFESSOR** position in plant ecophysiology. The candidate is expected to develop an active research program and to teach at both the graduate and undergraduate levels. Candidates must hold a Ph.D. and have postdoctoral experience. Interested candidates should send résumé, a statement of current and future research goals, and three letters of reference before November 19, 1997, to: **Dr. José E. García-Arriaga, Chair, Box 23360, San Juan, PR 00931-3360.** *An Affirmative Action/Equal Opportunity Employer.*



**TENURE TRACK
ASSISTANT PROFESSOR
Developmental Biologist**

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

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

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

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

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



**Simon Fraser University
TENURE TRACK FACULTY
POSITION IN
ANALYTICAL CHEMISTRY**

The Department of Chemistry at Simon Fraser University is expanding its competition for a tenure track faculty position in Analytical Chemistry at the Assistant Professor level to all qualified applicants. An outstanding candidate with a commitment to excellence in research and teaching is being sought. The successful candidate will be expected to develop and maintain both an innovative, externally funded research program, and an excellent teaching record at both the undergraduate and graduate levels.

Applicants should send a complete resume, a research proposal, and a list of three individuals willing to act as referees with their addresses, telephone and/or fax numbers and, if possible, e-mail addresses to:

**Professor Ralph Korteling, Chair
Department of Chemistry
SIMON FRASER UNIVERSITY
Burnaby, B.C. CANADA V5A 1S6
Fax: (604) 291-5424**

Evaluation of applications will be initiated as they are received.

Simon Fraser University is an equal opportunity employer and strongly encourages applications from women and minorities. Preference will be given to Canadian citizens and permanent residents of Canada. The appointment is subject to final budgetary authorization.

**Quantitative Ecologist
Department of Biological Sciences
Dartmouth College**

The Department of Biological Sciences, Dartmouth College, seeks applicants for a tenure-track Assistant Professor position to begin in the fall of 1998. The successful applicant will join a dynamic and growing graduate program in ecology and evolution. We seek an ecologist who combines theoretical approaches with experimentation and field studies. Research should address physiological, population, or community processes. Ecologists combining basic and applied research interests are also encouraged to apply. The successful candidate will be expected to develop a vigorous, externally funded research program and teach courses in biostatistics and ecology at the undergraduate and graduate levels. Ph.D. and postdoctoral experience are required.

Please submit curriculum vitae, statements of research and teaching interests, recent reprints, and three letters of recommendation to:

**Mark McPeck, Chair
Ecology Search Committee
Department of Biological Sciences
6044 Gilman Hall
Dartmouth College
Hanover, NH 03755-3576**

Application review will begin on 10 October 1997 and continue until the position is filled. Women and members of minority groups are strongly encouraged to apply. Information about the department can be found on the WWW at <http://www.dartmouth.edu/artsci/biology/index.html>. *Dartmouth College is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION

Department of Biological Sciences

The Department of Biological Sciences at Dartmouth College seeks applicants for a position broadly defined in **Molecular and Cellular Biology** to be filled at the level of **Assistant, Associate, or Full Professor**. The successful candidate will be expected to supervise an independent research program that will attract extramural funding and provide research training for graduate and undergraduate students. The suitable applicant will join a group of faculty whose research involves cellular, genetic, and biochemical approaches to studying problems in a number of model systems including *Drosophila*, worms, and *Arabidopsis*. Candidates should expect to participate in the teaching of undergraduates and graduate students. Please send a current curriculum vitae, a list of your references (with their FAX numbers and e-mail addresses) and a statement of research and teaching interests to:

**C. Robertson McClung, Chair
Molecular and Cellular Biologist Search
Committee
Department of Biological Sciences
Dartmouth College
6044 Gilman Hall
Hanover, NH 03755-3576**

Although materials may be submitted by FAX (603-646-1347), the original documents are ultimately required. Application review will begin on 15 October 1997. Additional information about the Department may be viewed on the World Wide Web: <http://www.dartmouth.edu/artsci/biology/index.html>

Women and members of minority groups are strongly encouraged to apply. Dartmouth College is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

Department of Biological Sciences

The Department of Biological Sciences, Dartmouth College, invites applications for a tenure-track Assistant or early-career Associate Professor position in the **History and/or Philosophy of Twentieth-Century Life Sciences**. The position will begin July 1, 1998. We seek candidates whose scholarship will lead them to interact with biologists as well as with historians and/or philosophers. The successful candidate will be expected to develop a vigorous, externally funded research program and teach courses in the history and/or philosophy of life science to biology majors and non-majors. Ph.D. must be in hand prior to appointment. Please submit a curriculum vitae, statement of research and teaching interests and three letters of recommendation to:

**Mary Lou Guerinot, Chair
History/Philosophy of Science Search
Department of Biological Sciences
Dartmouth College
6044 Gilman Hall
Hanover, NH 03755-3576**

Application review will begin on 10 October 1997 and will continue until the position is filled. Although materials may be submitted by FAX (603-646-1347), the original documents are ultimately required. For information on Dartmouth's Department of Biological Sciences, see www.dartmouth.edu/artsci/biology/index.html.

Women and members of minority groups are strongly encouraged to apply. Dartmouth College is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

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

Applications and nominations are invited for a tenure-track faculty position at the level of Assistant, Associate, or Full Professor. All areas of biochemistry will be considered; however, we are especially interested in individuals using transgenic vertebrate systems to investigate problems related to gene expression in the context of development and molecular medicine. Applicants should have a Ph.D., postdoctoral experience, a strong record of research accomplishments, and demonstrable potential for the development of an independent research program. The Department is one of six basic science departments in the largest College of Medicine in the United States and consists of 18 full-time faculty and 13 joint appointees. In recent years we have recruited several senior and junior faculty and are most interested in fostering independent research in an environment of interactive collegiality. Applications should include a curriculum vitae, a summary of current and future research plans, and the names, addresses, and telephone and FAX numbers of at least three individuals for references. All inquiries will be held in confidence. Review of applications will begin after October 15, 1997. Send applications or nominations to: **Chair, Search Committee, Department of Biochemistry and Molecular Biology (M/C 536), University of Illinois College of Medicine, 1819-53 West Polk Street, Chicago, IL 60612.** The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

RECEPTOR MODELING, UCSF

The Department of Cellular and Molecular Pharmacology, University of California-San Francisco (UCSF), seeks a skilled scientist to join a collaborative research effort aimed at relating 3-D structure and signaling function of G protein coupled receptors (GPCRs). Appointed at the level of **ASSISTANT RESEARCH PHARMACOLOGIST**, this individual will collaborate with specialists in protein structure and biochemistry of signal transduction in the laboratories of **Fred E. Cohen** and **Henry R. Bourne**. She or he will devise 3-D models of GPCRs, which will be tested and modified by results of biochemical and genetic experiments. The individual selected will have a Ph.D. or equivalent, and will be trained in analysis of protein structure and function, including molecular modeling and energy calculations; knowledge of receptor pharmacology is preferred. Applicants should send a curriculum vitae and bibliography, names and addresses of three references, and a letter describing their training, interests, and expertise, to: **Henry R. Bourne, Box 0450, S-1210, University of California Medical Center, 513 Parnassus, San Francisco, CA 94143-0450.** The University of California is an Equal Opportunity Employer.

ANATOMY/EMBRYOLOGY

Furman University seeks a tenure-track **ASSISTANT PROFESSOR**, beginning September, 1998. Teaching responsibilities include a course in comparative anatomy and embryology of chordates, other upper-level courses depending on expertise, and introductory biology. Candidates must have the Ph.D., evidence of interest and excellence in teaching, and a commitment to involving undergraduate students in an active research program. Furman is a selective liberal arts school of 2,500 students, with a strong emphasis on engaged learning and undergraduate research. For further information, see website: <http://www.furman.edu/~pollard/search/>. Submit curriculum vitae, statement of teaching credentials and philosophy, description of research interests, unofficial transcripts, and three letters of recommendation to: **Dr. Joe Pollard, Search Committee, Department of Biology, Furman University, Greenville, SC 29613.** Review of applications commences October 20, 1997, continuing until position is filled. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE, physiology, Ph.D. or M.D. to conduct studies independently. Study breathlessness in collaboration with physiologists, psychologists, and physicians. Requires strong background in cardiopulmonary physiology. Experience with human subjects, psychophysics, or functional brain imaging also helpful. Rich environment for research, opportunity to learn, good benefits. Salary depending on qualifications. Send letter, résumé, and names of three references to: **R. Banzett, Ph.D., Physiology Program, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.**

POSITIONS OPEN

RESEARCH ASSOCIATE in transplantation. Requirements: Ph.D. or background in immunology. Send curriculum vitae to: **Thomas Johnston, M.D., University of Kentucky Medical Center, Department of Surgery, C451 Transplant Center, 800 Rose Street, Lexington, KY 40536-0084.**

OREGON STATE UNIVERSITY ASSISTANT PROFESSOR OF PHARMACOLOGY

Applications are sought for a tenure-track position in pharmacology. A Ph.D. and postdoctoral experience in contemporary areas of pharmacology are required. Special consideration will be given to candidates interested in application of molecular and/or biochemical approaches to study basic signaling mechanisms of, or related to, nuclear, G protein-coupled or cytokine receptors, receptor tyrosine kinases or ligand-gated ion channels. The successful candidate will participate in teaching pharmacology to professional and graduate students. The capability to generate extramural research support should be evident.

Send a curriculum vitae and letter outlining research and teaching interests, and have three reference letters sent to: **Dr. Richard A. Ohvall, Oregon State University College of Pharmacy, 203 Pharmacy Building, Corvallis, OR 97331-3507.** Application reviews begin November 15, 1997.

For general information see website: <http://www.orst.edu/dept/cop/>. (Committee chair Telephone: 541-737-5809)

OSU is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to dual-career needs.

NEUROBIOLOGY RESEARCH-TRACK POSITIONS. Two positions available for: (1) An integrative and/or cellular neurophysiologist to study membrane properties, synaptic integration, and plasticity in mammalian olfactory bulb and piriform cortex. Demonstrated experience and publications in intracellular or patch clamp recording in slices, and/or infrared and/or voltage/Ca-sensitive dye imaging required. (2) A neuroanatomist to study connections, neurochemistry, and morphology in olfactory bulb and piriform cortex circuits. Experience and publications in immunocytochemistry, *in situ* hybridization, and/or tract tracing techniques required. Applicants for both positions should possess a Ph.D. and/or M.D. Excellent oral and written communication skills are required. Send curriculum vitae and names, addresses, and telephone numbers of three references to: **Dr. M. Ennis/M. Shipley, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, 685 West Baltimore Street, Baltimore, MD 21201.** E-mail: mennis@umabnet.ab.umd.edu. The University of Maryland is an Affirmative Action/Equal Employment Opportunity/ADA Employer. Minorities and women are encouraged to apply.

UNIVERSITY OF PENNSYLVANIA

Postdoctoral position is available immediately to investigate signaling and regulation of transcription in T cell activation. Experience in signal transduction and molecular biology is desirable. Requires recent Ph.D. in biochemistry/molecular biology and ability to work on a team. Send résumé and three references to: **Dr. Velpandi Ayyavoo, University of Pennsylvania, Room 505, Stellar-Chance Laboratories, 422 Curie Boulevard, Philadelphia, PA 19104.** FAX: 215-573-9436. Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATES CORNELL UNIVERSITY

Positions available immediately to work on silks from various species of spiders and on fibers drawn from genetically engineered proteins. Aim is to understand structure, orientation, dynamics, and response to deformation, and to relate these measurements to the molecular structure and amino acid composition. Applicants should have a recent Ph.D. in materials science, chemistry, physics, or related discipline with experience in X-ray diffraction of oriented polymers or fibers and/or solid state NMR. Competitive salary. Send curriculum vitae and names of three references to: **Professor Lynn Jelinski, 130 Biotechnology Building, Cornell University, Ithaca, NY 14853.** E-mail: lwj2@cornell.edu. Equal Opportunity Employer.

POSITIONS OPEN

ECOLOGIST/SOIL SCIENTIST/ RHIZOSPHERE BIOLOGIST

The National Research Initiative Competitive Grants Program (NRI) of the U.S. Department of Agriculture seeks a qualified scientist to serve as permanent **PROGRAM DIRECTOR** for research grants administration in the area of soil science, rhizosphere biology, or wetland, riparian, forest, or agroecology. Candidates must have an advanced degree with major study in one of the areas listed above or a closely related field. It is preferable that the candidate have a Ph.D. or equivalent specialized experience. This is a competitive vacancy, open to all United States citizens.

Closing date is October 6, 1997. Applicants will be evaluated against Quality Ranking Factors which are detailed in the Vacancy Announcement. Interested persons are urged to contact **Dr. Anne Datko**, Division Director, for information on the position or to obtain a Vacancy Announcement. She can be reached at: **NRI, CSREES/USDA, STOP 2241, 1400 Independence Avenue S.W., Washington, DC 20250-2241.** Telephone: 202-401-4871; FAX: 202-401-6488; e-mail: adatko@reusda.gov. For information on application procedures/forms, contact the Human Resources Division, Telephone: 301-344-3960. The Vacancy Announcement (#WA-AG-05-97-0117) can also be obtained from the Human Resources Division or via Internet website: <http://www.reusda.gov/new/hrd/auglist/htm>. USDA is an Equal Opportunity Employer.

DIRECTOR CLINICAL ONCOLOGY RESEARCH

The University of Miami/Sylvester Comprehensive Cancer Center seeks an oncology-focused physician or surgeon capable of leading and expanding the reach of its clinical oncology research effort. The principal emphasis will be on increasing the bidirectional linkages between the clinic and laboratory, with the potential for enhanced peer-reviewed funding. Qualifications include a clear focus in oncology, an M.D. or M.D.-Ph.D. degree, current NIH/NCI/ACS/DOD funding, and a record of experience in directing high quality translational research efforts. Individuals with well-functioning laboratories will be favored for this position, but clinical investigators with the ability to bridge between the basic and clinical sciences are welcome to apply. The appropriate individual should qualify for a tenure appointment at the Associate Professor or Full Professor level. Apart from pursuit of their own focused research programs, candidates will need to interface effectively with Cancer Center members of diverse research interests and serve as a role model and catalyst in stimulating the development of the Center's translational research programs. If you are interested, mail a copy of your curriculum vitae to: **Peter A. Cassileth, Deputy Director, Sylvester Comprehensive Cancer Center, 1475 N.W. 12th Avenue (D8-4), Miami, FL 33136.** Equal Opportunity Employer/Affirmative Action.

SENIOR SCIENTIST ASSOCIATE SCIENTIST University of Wisconsin-Madison Cancer Research

The University of Wisconsin Comprehensive Cancer Center has an immediate opening available for a Senior or Associate Scientist to undertake primary responsibility for research into the role of protein tyrosine kinases in the signal pathway of stimulated immunocompetent lymphocytes and to explore the role of proteins in B-lymphoid cells signal transduction in normal and malignant cells. Salary \$35,190 to \$49,982 full-time annually. Contact: **Dr. John Niederhuber, M.D., K4-614 Clinical Science Center, 600 Highland Avenue, Madison WI 53792.** Telephone: 608-263-8610.

PART-TIME MICROSCOPE SALES/SCIENTISTS

Manufacturer of a new, high-resolution optical 3-D microscope seeks Microscopists with discretionary time interested in supplementing income through equipment sales and application development. Ideal candidate will continue to perform research in a discipline benefiting from 3-D analysis. Compensation based on ability to develop and publish new applications for technology and to assist in sales of microscopes to other scientists.

Send résumé to:

**InGen Corporation
235 Montgomery Street
Suite 300
San Francisco, CA 94104**

CELLULAR AND VIRAL IMMUNOLOGY:**BARBARA REHERMANN**

Postdoctoral position to study the immunopathogenesis of hepatitis B and C (helper and CTL response, viral mechanisms of escape from immune surveillance). Experience in cellular and molecular immunology, especially in animal models, antigen processing or signal transduction strongly preferred.

IRON METABOLISM AND TOXICITY:**CAROLINE PHILPOTT**

Postdoctoral position to study the effects of excess iron uptake in human cells and yeast. We utilize a genetic model of iron intoxication in yeast to investigate the mechanism by which excess iron leads to cell cycle arrest and DNA damage. Research efforts will be expanded to include the human disease of iron overload, hemochromatosis. Experience in yeast genetics and/or molecular biology required.

Candidates should have a Ph.D. with less than 5 years of postdoctoral experience. Application should be sent to:

LIVER DISEASES SECTION, NATIONAL INSTITUTE OF DIABETES, DIGESTIVE & KIDNEY DISEASES, NATIONAL INSTITUTES OF HEALTH, BLDG. 10, ROOM 9B16, 10 CENTER DRIVE, BETHESDA, MD 20892-1800; FAX: 301-402-0491.

NIH is an Equal Opportunity Employer

**Postdoctoral Positions in Biochemistry
University of Missouri-Columbia**

Dr. Lesa Beamer

*Protein x-ray crystallography
protein-lipid interactions*

Dr. Susan Deutscher

*Antibody engineering, nucleic acid-protein
interaction*

Dr. David Eide

Metal ion transporters and their regulation

Dr. David Emerich

Symbiotic nitrogen fixation

Dr. Jeanne Erickson

Photosystem II assembly and function

Dr. William Folk

*Animal cell DNA replication; plant tRNA
expression*

Dr. Tom Guilfoyle

Auxin-regulated transcription

Dr. Gretchen Hagen

Auxin-regulated gene expression

Dr. Mark Hannink

*Oncogenes and signal transduction;
embryotoxicity by pollutants*

Dr. Dennis Lubahn

Estrogen receptors and environmental estrogens

Dr. Mark Martin

Transcription factors and gene therapy vectors

Dr. Tom Mawhinney

Glycoprotein genetics and disease

Dr. Bruce McClure

Pollination biology

Dr. Roy Morris

Cytokinin biosynthesis and control

Dr. Beryl Ortwerth

*Protein glycation; oxygen free radicals and
cataract formation*

Dr. Joe Polacco

Nitrogen and nickel metabolism in plants

Dr. Tom Quinn

*Synthesis of radiolabeled proteins;
combinatorial peptide chemistry*

Dr. Frank Schmidt

RNA structure and function

Dr. Krishna Sharma

Structure-function of lens crystallins

Dr. Grace Sun

*Signal transduction and gene expression
in the nervous system*

Dr. Roger Sunde

Selenium and nutrient regulation of gene expression

Dr. John Tanner

*Enzyme thermostability; molecular
recognition and dynamics*

Dr. Judy Wall

Genetics of sulfate-reducing bacteria

Dr. Ching Wang

Gene mapping of human neurological disorders.

Applicants should send CV and names of two references to:

**Postdoctoral Application, Department of Biochemistry, 117 Schweitzer Hall,
University of Missouri, Columbia, MO 65211**

Please specify research interest

The University of Missouri is an Equal Opportunity Institution

**M. Lowell Edwards
Research Chair in
Cardiology**

Oregon Health Sciences University

The Division of Cardiology is seeking nominations of a highly talented cardiologist/scientist to serve as the M. Lowell Edwards Chair in Cardiology. This chair is a fully endowed position with unique flexibility for a talented individual to conduct research in cardiovascular medicine. OHSU offers a broad range of collaborative opportunities ranging from cellular and molecular biology to clinical cardiovascular research. Cardiology Division activities include basic and clinical research, training of cardiovascular scientists through a NIH training grant, and participation in the Congenital Heart Research Center. The Pacific Northwest offers exceptional personal and professional lifestyle opportunities. Please send curriculum vitae to:

John H. McAnulty, M.D.
Head, Division of Cardiology
3181 S.W. Sam Jackson Park Road,
L-462
Oregon Health Sciences University
Portland, Oregon 97201-3098

**FACULTY POSITION
NMR SPECTROSCOPY**

Vanderbilt University School of Medicine invites applications for a position in NMR spectroscopy. The successful applicant should have an active research program in structure/dynamics/function of proteins or peptides using modern solution or solid state NMR approaches. This recruitment is a central component of a University effort to expand our established structural biology program and includes the acquisition of appropriate additional NMR instrumentation and the renovation of essential supporting research facilities. Applicants at all academic ranks will be considered. Interested applicants should send a curriculum vitae, a brief description of current research interests, and the names of three persons who could provide letters of recommendation to:

Search Committee, NMR Spectroscopy
Vanderbilt University School of Medicine
Department of Molecular
Physiology & Biophysics
727 Light Hall
Nashville, TN 37232-0615

Review of applications will begin upon receipt and will continue until the position is filled. *Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.*

**MOLECULAR BIOLOGY
TECHNICIAN**

The Laboratory of Molecular Genetics, National Institute of Child Health and Human Development (NICHD), is seeking applications for a Molecular Biology Technician to assist researchers studying the embryonic origins of the vertebrate circulatory system using the Zebrafish. A variety of genetic, molecular genetic, experimental embryologic, and molecular approaches are employed to identify and characterize novel genes involved in blood and vessel development and to examine how new and previously identified genes guide the specification and patterning of vascular and hematopoietic tissues during early development. Salary will commensurate with experience.

Interested applicants with substantial molecular biology experience should submit a curriculum vitae, bibliography, and three names of references with phone numbers by October 1, 1997, to:

Brant M. Weintstein, Ph.D.
Unit on Vertebrate Organogenesis
Laboratory of Molecular Genetics,
NICHD
National Institutes of Health
Bethesda, Maryland 20892
E-mail: bw96@nih.gov

POSITIONS OPEN

POSTDOCTORAL POSITION to study male germ cell culture, genetic modification, and transplantation (*Nature* 381:418; *Nature Med.* 2: 693). Send curriculum vitae, names of three references, and description of research skills and interests to: **R. L. Brinster, School of Veterinary Medicine, University of Pennsylvania, 3850 Baltimore Avenue, Philadelphia, PA 19104.**

POSTDOCTORAL POSITIONS AVAILABLE

We have two positions available in two funded projects that will study the genetic toxicology of arsenic. The projects will examine (1) mechanisms of DNA repair inhibition in arsenic-treated human cells and (2) interactions between arsenic and the tripeptide glutathione (GSH) and GSH-metabolizing enzymes. Both projects are multidisciplinary and involve genetic toxicology, molecular biology, analytical biochemistry, and rodent carcinogenesis assays. Therefore, applicants must have strong molecular biology or biochemistry experience, in addition to a high level of independence, strong motivation, and comprehensive English skills. Funding is available for one to three years. Successful applicant(s) will be encouraged to also apply for additional funding through Postdoctoral Fellowships.

Please contact: **Dr. Liza Snow, Nelson Institute of Environmental Medicine, New York University Medical Center, 57 Old Forge Road, Tuxedo, NY 10987. Telephone: 914-351-2119; FAX: 914-351-2118; e-mail: snow@charlotte.med.nyu.edu.**

POSTDOCTORAL POSITIONS UNIVERSITY OF PENNSYLVANIA GENETIC ANALYSES OF DIGESTIVE ORGAN DEVELOPMENT

Postdoctoral positions are available to study vertebrate digestive organ development using mutational analysis in the mouse (*Genes and Development* 11:1583-1595) and zebrafish (*Development* 123:321-328). Work in our labs is directed toward the identification of genetic pathways which regulate patterning, lineage specification, differentiation, and proliferative control in the intestine, liver, and pancreas. Candidates with a strong background in genetics and molecular biology should send their curriculum vitae, statement of research interests, and the names of three references to: **Dr. Klaus Kaestner and Dr. Michael Pack, University of Pennsylvania School of Medicine, Room 564, 415 Curie Boulevard, Philadelphia, PA 19104. FAX: 610-573-5892; e-mail: mpack@mail.med.upenn.edu.**

POSTDOCTORAL FELLOWSHIP in population immunogenetics available for recent Ph.D. or M.D. graduate with documented experience in molecular techniques (i.e., PCR, sequencing). Knowledge/skills in molecular cloning or immunogenetics desirable. Emphasis on gene variants controlling the response to infectious and immunizing agents such as HIV, herpesviruses, mycobacteria, and HPV. *Permanent residency or U.S. citizenship required.* Send curriculum vitae, summary of experience, and names of three references to: **Richard A. Kaslow, M.D., University of Alabama at Birmingham, 212C Tidwell Hall, 720 20th Street South, Birmingham, AL 35294-0008.**

Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS (four) available immediately to study the ecology and physiology of dissimilatory metal- and humics-reducing microorganisms in extreme and metal-contaminated environments or to study the anaerobic degradation of aromatic hydrocarbons. Experience in culturing anaerobic microorganisms and/or molecular ecology preferred. Please send curriculum vitae and names of three references to: **Dr. Derek Lovley, Department of Microbiology, University of Massachusetts, Amherst, MA 01003. E-mail: dlovley@microbio.umass.edu. University of Massachusetts is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS available for molecular biologists interested in joining a multidisciplinary research team to study gene regulation in animal models of chronic disease modulation by exercise. Submit curriculum vitae, three letters of reference, and statement of career goals to: **Frank Booth, Ph.D., Department of Integrative Biology, University of Texas at Medical School, 6431 Fannin Street, Houston, TX 77030. UT Houston is an Equal Employment Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

NEUROBIOLOGY/PHARMACOLOGY UNIVERSITY OF CHICAGO

JUNIOR AND SENIOR POSTDOCTORAL positions are available in the laboratories of **Donna Hammond, Ph.D., Neil Harrison, Ph.D., or Daniel McGehee, Ph.D.** to examine the molecular, cellular, and systems bases of drug action in the nervous system.

PD1: Examines the molecular basis of drug effects on the GABA_A receptor (see Mihic et al., *Nature*, in press). Experience in one or more of the following is desired: cDNA or genomic cloning, transgenic technologies, site-directed mutagenesis, protein purification, NMR, or molecular modeling of protein structures.

PD2: Examine modulation of the excitatory input to spinal motor neurons by presynaptic nicotinic receptors using a combination of electrophysiological, molecular, and immunocytochemical techniques (see McGehee et al., *Science*, 269:1692-1696, 1995). Patch clamp recording experience is desired.

PD3: Examines effects of GABAergic and opioid ligands on synaptic transmission in brainstem and spinal cord slice preparations as it relates to mechanisms of analgesia. Slice patch clamp recording experience is required.

PD4: Examines neuroanatomical bases for the enhancement of drug efficacy and potency under conditions of chronic pain. (See Hama et al., *J. Comp. Neurol.* 384: 337-348, 1997.) Experience with *in situ* hybridization, immunocytochemistry, and tract tracing is desired.

PD5: Examines pharmacological bases for the enhancement of drug efficacy and potency under conditions of chronic pain. Experience with *in vivo* pharmacology, assessment of behavior in unanesthetized animals, and small animal surgery is desired.

Inquiries, including résumé, names and addresses of three references, and position(s) of interest, should be sent to: **Ms. Donna Burke, Department of Anesthesia and Critical Care, University of Chicago, 5841 South Maryland Avenue, MC4028, Chicago, IL 60637. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.**

RESEARCH FELLOWSHIP IN PULMONARY/THORACIC RESEARCH

A two- to three-year Fellowship in pulmonary/thoracic research is offered for qualified M.D., Ph.D., or M.D.-Ph.D. applicants with experience in human pulmonary mechanics measurements, small animal model of asthma (including pharmacology and biochemical assays on BAL fluid) or epithelial cell function. An individual receiving this appointment will participate in three potential areas of investigation including human pulmonary mechanics, small animal model of hyperventilation-induced asthma, or mediator release using cultured epithelial cells at Mayo Foundation, Rochester, Minnesota. Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Foundation is a non-profit, physician-lead clinical practice integrated with education and research in a unified multi-campus system. Interested individuals should send copies of their curriculum vitae and three letters of reference to: **Dr. Kenneth Beck, Division of Pulmonary and Critical Care Medicine, Third Floor Plummer Building, Mayo Clinic, Rochester, MN 55905 before November 1, 1997. Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.**

TROPICAL FOREST ECOLOGIST

POSTDOCTORAL RESEARCH ASSOCIATE position to sample and analyze the vegetation and biodiversity of the southern Yucatan Peninsula in relationship to land-use history and natural disturbance. The study is part of a collaborative effort between Harvard University and Clark University supported by the NASA LCLUC program that is linking remote sensing, cultural geography, and forest ecology and will involve extended fieldwork within a 6500 km² study region. Strong familiarity with tropical flora and vegetation analysis, commitment to interdisciplinary studies, established record of research, ability to conduct independent research, and proficiency in Spanish and English are essential qualifications. The position starts by January 1, 1998, and is a one-year appointment with an approximate salary of \$30,000 and possibility for renewal. Please send a curriculum vitae, cover letter explaining your background and interest in the position, and three letters of recommendation to: **David R. Foster, Director, Harvard Forest, P.O. Box 68, Petersham, MA 01366 by October 1, 1997.**

Harvard University is an Equal Opportunity Employer and applications from minorities and women are strongly encouraged.

POSITIONS OPEN

A **POSTDOCTORAL POSITION** is available immediately in The Department of Molecular Biosciences at The University of California at Davis to study the mitochondrial control of neurodegeneration. Experience in mitochondrial molecular biology (PCR, RFLP, Southern, phylogenetic analysis) as well as biochemistry (RCR, Westerns) and tissue culture are very strongly preferred. E-mail curriculum vitae to: **gacortopassi@ucdavis.edu; FAX: 916-752-4698.**

POSTDOCTORAL POSITIONS THE BURNHAM INSTITUTE

Openings during 1997 to study the following topics:

Protein engineering. Projects involve phage display and *in vitro* evolution to design novel ligands, receptors, and protease inhibitors. Studies aimed at building model ligands for use in crystallography, NMR, and kinetic analysis, applicable toward drug design and gene therapy.

Biochemistry of integrin adhesion receptors and ADAM proteins. Projects focus on understanding structure-function relationships of integrins and ADAMs that regulate cell adhesion and migration. Emphasis placed on studies relevant to osteoporosis and angiogenesis.

Mechanisms of tumor metastasis. Projects focus on contributing factors to metastasis, applying animal metastasis experiments and functional genomics.

To apply please send curriculum vitae, copies of published papers, and three references to:

**Dr. Jeffrey Smith
Director, Program on Cell Adhesion
The Burnham Institute
10901 North Torrey Pines Road
La Jolla, CA 92037**

POSTDOCTORAL RESEARCHER. Measures of oxidative stress in humans. A two-year postdoctoral appointment, with possibility of renewal, is available immediately. The candidate will develop and apply measures of oxidative stress during the aging process, and study the interaction of these measures with nutritional status. The qualified applicant must have working knowledge of organic chemistry, HPLC, and GC/MS, and must be able to work independently to develop and validate methods to analyze oxidant stress. Good communication and writing skills are required. A competitive salary and benefits package is offered. Please send curriculum vitae, statement of research interests, and names of three references by October 20, 1997, to: **Dr. Garry J. Handelman, Assistant Professor/Scientist II, USDA Human Nutrition Research Center on Aging, Tufts University, 711 Washington Street, Boston, MA 02111. E-mail: handelman_lp@hnrc.tufts.edu. Tufts University is an Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATES/POSTDOCTORAL FELLOWS. Creative and highly motivated Cellular Immunologists are invited to apply for Research Associate/Postdoctoral positions in Cancer Gene Therapy Laboratory at the Institute for Gene Therapy and Molecular Medicine, Mount Sinai School of Medicine, New York, New York. The laboratory is dedicated to intensive basic research studies and clinical development on tumor immunosuppression and immunomodulatory gene therapies for metastatic tumors. Prospective candidates should send an updated curriculum vitae and bibliography, a two-page summary of past research accomplishments and future goals, plus three letters of recommendation to the following address: **Dr. Shu-Hsia Chen, Assistant Professor, Institute for Gene Therapy and Molecular Medicine, Box 1496, Mount Sinai School of Medicine, New York, NY 10029-6574. Equal Opportunity Employer.**

POSTDOCTORAL POSITION in intracellular signaling. Position available to study MAP or S6 kinase pathway regulation in mammalian cells or developing *Artemia*. Background in signaling using either molecular cloning or biochemical approaches optimal. Send inquiry and three references as soon as possible to: **Dr. T. W. Sturgill, Howard Hughes Medical Institute, University of Virginia, Markk Center for Cell Signaling, Box 577, Charlottesville, VA 22908 USA. Website: www.med.virginia.edu/inter-dis/signaling/celsig00.html; FAX: 804-924-9659. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.**

RPI, a leader in the development of ribozyme-based pharmaceutical and agricultural products, is currently seeking an experienced scientist to join our Pharmacology group in our state-of-the-art facility in Boulder, Colorado.

Ph.D. Scientist

We seek a Ph.D.-level scientist with 3-5 years of post-doctorate experience in conducting pharmacodynamic experiments in animal models of cancer. Experience with *in vivo* models of ocular disease and/or inflammation is a plus. This position requires strong oral and written communication skills and the ability to interact with a diverse group of scientists across several disciplines including pharmacology, drug delivery, oligonucleotide chemistry, and cell biology.

We offer a competitive salary and benefits package, including a stock option plan and flexible benefits program. For consideration, please send a curriculum vitae and the names of three references to:

Ribozyme Pharmaceuticals, Inc., Job #78, 2950 Wilderline Place, Boulder, CO 80301. Fax: (303) 449-6995. E-mail: jobs@rpi.com.

Web site: <http://www.rpi.com>

No phone calls please. We are an Equal Opportunity Employer.



Department of Biology Ecologist Animal Physiologist

The Department of Biology of the University of Waterloo invites applications for two TENURE-TRACK positions at the ASSISTANT PROFESSOR level, one in animal physiology and one in ecology. Applicants must have a Ph.D. and be prepared to establish an active research program. Duties include research, teaching at the undergraduate and graduate levels, and graduate student supervision. In addition to being able to teach either animal physiology or ecology, candidates should be able to teach at least one of environmental toxicology, quantitative ecology/modelling, fisheries, genetics, or immunology.

For the animal physiology position, we are particularly interested in candidates in the areas of environmental toxicology or environmental physiology, or using molecular approaches to explore an aspect of animal physiology.

For the ecology position, we are looking for someone to complement our strong research group in aquatic ecology.

Salary will be commensurate with qualifications and experience. Applicants should send their curriculum vitae, the names of three individuals willing to furnish letters of reference, and an outline (1-2 pages) of their proposed research program to: **Dr. William D. Taylor, Professor and Chair, Department of Biology, Faculty of Science, University of Waterloo, Waterloo, Ontario, N2L 3G1 CANADA.**

The closing date for applications is November 30, 1997.

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities. These appointments are subject to the availability of funds.

Additional information on the Department is available at <http://www.science.uwaterloo.ca/biology/biology.html>.



COLBY COLLEGE

Biochemistry Chair

The Department of Chemistry at Colby College invites applications for the new Dr. Gerald and Myra Dorros chair in Biochemistry. The initial tenure-track appointment is expected to be at the assistant professor level beginning in September 1998. In addition to highly competitive salary and benefits, the Dorros Chair also provides a significant startup package and annual research funds.

Applicants must possess a Ph.D. in chemistry, biochemistry, or a related field and will be expected to teach courses in biochemistry and physical, instrumental, or analytical chemistry. The successful applicant will also be expected to develop an aggressive research program involving undergraduates in structural biochemistry, analytical biochemistry, physical biochemistry, or related subjects. The department is located in a newly renovated building and is well equipped with major instrumentation including standard biochemical holdings (e.g., ultracentrifuge, cold room, radioisotope room, dark room, and HPLC), 400 MHz NMR, GC-MS, FTIR, ICP-ES, AFM/STM, and a state of the art computational chemistry facility including six SGI workstations with Power Challenge and Origin 2000 servers. More information about the department and the position can be found on the Colby Chemistry web site: www.colby.edu/chemistry

Review of applications will begin November 1, 1997. Applicants should provide a CV, statements of teaching philosophy and research plans, undergraduate and graduate transcripts, and three letters of recommendation to: **Prof. D. Whitney King, Search Committee Chair, Department of Chemistry, Box 5755, Colby College, Mayflower Hill, Waterville ME 04901.** Colby is an AA/EOE and encourages applications from women and minorities.

FACULTY/ADMINISTRATIVE POSITION IN CONSERVATION

The Department of Botany, College of Natural Sciences invites applications for a full-time, 9-month, tenure-track position available from January 1, 1998, pending clearance and availability of funds. The department seeks a scientist at the Associate or Full Professor level who will expand conservation and resource management research in Hawai'i and the Pacific. Academic duties (50%) include teaching a minimum of one course per year in area of specialty, establishing a research program, and training graduate students. Administrative duties (50%) include administering a \$5 million/year extramurally funded program based on cooperative agreements established between the University and its Federal, State, and private partners via the Cooperative Studies Unit of USGS-BRD. The appointment will include two months of overload for administrative duties during the summer relative to the management of the cooperative agreements. Minimum qualifications include a Ph.D. in Botany or other appropriate field of biological science, demonstrated teaching ability, demonstrated scholarly achievements, and the experience in negotiating and administering Federal/State contracts and grants. Desirable qualifications include academic leadership; experience with conservation studies, resource and alien species management, and tropical and ecosystem-level ecology; research focus in botanical science; ability to interface effectively across disciplines; and sensitivity to needs of applied research efforts. Salary is commensurate with qualifications and experience. Additional information about the Botany department and CPSU activities can be found at <http://www.botany.hawaii.edu> and for the Pacific Island Ecosystems Research Center and its Cooperative Study Unit at http://www.nbs.gov/pub_aff/centers.html. Submit vitae, statement of research interests, documentation of minimal and desirable qualifications, and names and contact information for at least three referees, including mail, e-mail, fax and phone numbers to **Chairperson, Department of Botany, 3190 Maile Way, University of Hawai'i at Manoa, Honolulu, Hawai'i 96822-2279.** Deadline for application is September 26, 1997. Inquiries may be made to **Botany@hawaii.edu** or fax 808-956-3923. The University of Hawai'i is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are strongly encouraged to apply.

POSITIONS OPEN

POSTDOCTORAL POSITION BIOMOLECULE MASS SPECTROMETRY NSF HIGH-FIELD FT-ICR MS FACILITY

A Postdoctoral position at \$33,500 per year is available in high-performance Fourier transform mass spectrometry. State-of-the-art equipment includes MALDI and electrospray ion sources for 7 T and 9.4 T widebore supercon magnets. The postdoctorate will participate in one or more projects, including identification and structural analysis of proteins, non-covalent adduct stability, isotopic amplification, solution versus gas-phase conformation, H/D exchange as a probe of surface accessibility. Applications include proteome analysis, tumor suppressor protein interactions, cytokines in biological fluids, combinatorial problems, epitope mapping, and DNA and RNA base-pairing. Prior experience in structural biology and/or biological mass spectrometry is essential. Submit graduate transcript, updated curriculum vitae including publications and presentations, a page on prior research accomplishments, and a short description of proposed research area(s), and have three reference letters sent to: Professor Alan G. Marshall, Director, ICR Program, National High Magnetic Field Laboratory, Florida State University, 1800 East Paul Dirac Drive, Tallahassee, FL 32310. FSU is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS SKELETAL MUSCLE AND AGING

National Institute on Aging-funded positions are available immediately for research in electrophysiology and molecular biology of aging skeletal muscle. One is a Postdoctoral Fellowship position supported by a NIA Training Grant and requires applicant to be a permanent resident or U.S. citizen. Interested candidates must have a doctoral degree and expertise in muscle electrophysiology, ion channels, fluorescent technique, or molecular biology. Applicants should send curriculum vitae and three letters of reference to: Osvaldo Delbono, Department of Internal Medicine/Gerontology, Bowman Gray School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157. E-mail: odelbono@bgsu.edu. Wake Forest University is an Equal Opportunity, Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL FELLOW MOLECULAR NEUROBIOLOGY UNIVERSITY OF CONNECTICUT

Postdoctoral position in molecular biology to study subunit stoichiometry and drug-binding properties of GABA_A receptors from brain and transfected cells using antibodies. Experience with recombinant DNA and/or membrane protein characterization is desirable. Salary commensurate with experience. Send curriculum vitae, statement of research accomplishments and interests, and three references to: Dr. Angel L. De Blas, Department of Physiology and Neurobiology, 3107 Horsebarn Hill Road, U-156, Storrs, CT 06269. FAX: 860-486-3303. We encourage applications from underrepresented groups including minorities, women, and people with disabilities. (Search #98A10)

POSTDOCTORAL POSITIONS available to study (i) signaling processes associated with the effects of the extracellular matrix proteins fibulin and thrombospondin on cell growth and migration, contact Dr. Scott Argraves, e-mail: argraves@muscu.edu; (ii) gap junctional intercellular signaling in the developing heart, contact Dr. Robert Gourdie, e-mail: gourdie@muscu.edu; and (iii) proteoglycan-mediated signaling events associated with epithelial-mesenchymal transformation in heart development, contact Dr. Stanley Hoffman, e-mail: hoffmas@muscu.edu. Send curriculum vitae and three letters of reference to: Dr. Argraves, Dr. Gourdie or Dr. Hoffman, Department of Cell Biology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study the role of translocation machinery and molecular chaperones during polytopic protein folding and assembly in the ER membrane. Experience in protein translocation, folding, and/or degradation is strongly preferred. M.D. or Ph.D. is required. Please submit letter of interest, curriculum vitae, and names of three references to: Dr. William Skach, 305 Stellar-Chance Laboratories, 422 Curie Boulevard, University of Pennsylvania, Philadelphia, PA 19104-6100. FAX: 215-573-8590. E-mail: skach@mail.med.upenn.edu. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL OPPORTUNITIES CHEMICAL AND MOLECULAR CARCINOGENESIS

Three **POSTDOCTORAL POSITIONS** exist to study the role of dihydrodiol dehydrogenase (DD) in carcinogenesis. DD converts polycyclic aromatic hydrocarbon (PAH) *trans*-dihydrodiols to *o*-quinones which redox cycle to produce reactive oxygen species and *o*-semiquinones. These reactive species may contribute to PAH carcinogenesis. The first position involves stable transfection of the rat and human DD genes into DD deficient cells and PAH-target cells. The cyto- and genotoxic consequences of exposing transfectants to PAH *trans*-dihydrodiols will be determined. Expertise in molecular biology, cell culture, and detection of 8'-oxo-deoxyguanosine is desirable. The second position involves the synthesis and characterization of stable and dephosphorylating *o*-quinone DNA adducts that can be used as biomarkers to assess the role of DD in PAH activation. Experience in quinone, DNA, and analytical chemistry is preferred. The third position involves the regulation of the rat and human DD genes by steroid hormones, reactive oxygen species, and antioxidants. Emphasis is placed on how these signals are sensed and transduced to alter gene transcription. Expertise in molecular biology and cell culture techniques preferred. Competitive salaries and opportunities for career advancement exist. Please send curriculum vitae and three letters of reference to: Dr. Trevor M. Penning, Department of Pharmacology, University of Pennsylvania School of Medicine, 3620 Hamilton Walk, Philadelphia, PA 19104-6084. E-mail: penning@pharm.med.upenn.edu. We are an Equal Opportunity workplace.

POSTDOCTORAL FELLOWSHIPS

Candidates must hold M.D. and/or Ph.D. degrees in bioengineering, physiology, or related fields and have interests in whole organic cardiac electrophysiology. Research and training will include the study of cardiac potential fields and electrocardiographic signals obtained from experimental animals and will focus on fundamental aspects of propagation and repolarization. High resolution electrocardiographic mapping and associated methods for analyzing and visualizing the recorded signals will be used. Trainees will collaborate with and be trained by an interdisciplinary team of scientists with expertise in cardiac electrophysiology, signal processing, scientific visualization, and computer science. Send inquiries to: Dr. Robert L. Lux, Director, Nora Eccles Harrison CVRIT, University of Utah, Salt Lake City, UT 84112-5000. E-mail: lux@cvti.utah.edu. The University of Utah is an Equal Employment Opportunity/Affirmative Action Employer and encourages women and minorities to apply.

POSTDOCTORAL POSITIONS available to study molecular mechanism of cellular aging and cell transformation with emphasis on polyamines, hypusine, and G1/S gene regulation. Experience in molecular cloning, tissue culture, and protein chemistry required. Some experience with yeast or *C. elegans* will be helpful. Send curriculum vitae, research statement, and names of three references to: Professor Kuang Yu Chen, Department of Chemistry, Rutgers University, P.O. Box 939, Piscataway, NJ 08855-0939. E-mail: kychen@rutchem.rutgers.edu.

POSTDOCTORAL RESEARCH ASSOCIATE position available to work on the regulation of cardiovascular extracellular matrix components. Contact: Dr. S. C. Tyagi, Department of Physiology and Biophysics, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505. Telephone: 601-984-1899; FAX: 601-984-1817. Equal Opportunity Employer, Minorities/Females/Disabled/Veterans.

POSTDOCTORAL POSITIONS IN MOLECULAR NEUROSCIENCE available to study mechanisms involved in vesicular transport of neurotransmitters (see TINS 18:218-224; PNAS 93:5166-5171; JBC 217:27229-27232). Candidates should have experience in gene cloning, mutagenesis, and expression techniques with interest in protein structure-function analysis. Projects also include creation of cell lines and transgenic/knockout animals to study the role of vesicular transporters play in neurotransmission and neuronal degeneration. Send curriculum vitae and three references to: Dr. Jeffrey D. Erickson, Neuroscience Center, Louisiana State University Medical Center, 2020 Gravier Street, Suite D, New Orleans, LA 70112. E-mail: jerick@lsuic.edu.

POSITIONS OPEN

POSTDOCTORAL POSITIONS EPITHELIAL/CARCINOMA CELL BIOLOGY

Postdoctoral positions are available to study cell membrane and membrane skeletal proteins involved in modulating cell adhesion and cell signaling in epithelial cells and their tumors. Three broad areas available in the laboratories are (1) signaling through ligands for ErbB receptors and cell-cell interaction proteins, (2) interactions between signal transduction pathway and membrane skeletal proteins, and (3) anti-adhesion effects of cell surface mucins. Projects will focus on molecular cloning/sequencing, localization, protein interactions, and functions of components of multimeric membrane complexes implicated in cell proliferation and cytoskeleton organization using molecular biological, biochemical, microscopic, and immunological approaches. Send inquiries or applications to: Dr. Coralie A. Carothers Carraway, Department of Biochemistry, or Dr. Kermit L. Carraway, Department of Cell Biology, University of Miami School of Medicine, P.O. Box 016960, Miami, FL 33101.

POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE Medical University of South Carolina Department of Microbiology and Immunology Human Gene Therapy Initiative

The Gene Therapy Research Initiative of the Department of Microbiology and Immunology at the Medical University of South Carolina is recruiting recent Ph.D.'s to work in areas promising early development of gene therapy products for treatment of human disease. Individuals must have published evidence of experience in a broad range of molecular biologic techniques. Positions are available for up to three years and are funded by industry. Salaries and fringe benefits are competitive.

Please contact: James S. Norris, Ph.D., Professor and Vice-Chair for Research, Department of Microbiology and Immunology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. FAX: 803-792-2464.

POSTDOCTORAL RESEARCH ASSOCIATE position in lung toxicology/cell biology available immediately for recent Ph.D. graduate to study events involved in oxidant-mediated damage and repair at the cellular and subcellular level. Research will involve the study of cell type sensitivity to endogenous and exogenous oxidants, with an emphasis on mitochondrial function and repair of mitochondrial and genomic DNA. Candidates should have experience with standard molecular and cell biology techniques. Please send curriculum vitae and a brief statement of research interests to: Dr. Bonita Taffe, 401 Life Sciences, Wayne State University, Detroit, MI 48202. E-mail: taffe@wizard.pharm.wayne.edu. Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at WSU are smoke-free. Wayne State University—people working together to provide quality service.

POSTDOCTORAL POSITION VISUAL NEUROSCIENCE

Position is available to study neural coding in the visual system. Backgrounds in neurophysiology, systems analysis, and computational techniques are preferred. Send letter of interest, curriculum vitae, along with names and addresses of three referees to: Dr. R. B. Barlow, Center for Vision Research, SUNY Health Science Center, 750 Adams Street, Syracuse, NY 13210. FAX: 315-464-7712; e-mail: barlowr@hscsy.edu. SUNY Health Science Center is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS

Two Postdoctoral positions available at the University of Wisconsin-Madison, to study ion-channel genes and proteins by means of microbial genetics in a multidisciplinary laboratory. Successful candidates should have thorough training in either molecular biology or in physiology. Professor C. Kung, Laboratory of Molecular Biology, University of Wisconsin, 1525 Linden Drive, Madison, WI 53706. E-mail: ckung@facstaff.wisc.edu.

POSTDOCTORAL POSITION available to study transcriptional regulation of a myeloid-specific gene implicated in autoimmune disease and leukemia, and the involvement of Alu-encoded hormone response elements in the regulation of this and other genes. Experience in molecular biology essential. Send curriculum vitae and names of three references to: Wanda F. Reynolds, Ph.D., Sidney Kimmel Cancer Center, 3099 Science Park Road, Suite 200, San Diego, CA 92121.

Postdoctoral Position

Protein Engineering

A postdoctoral position is available immediately for a recent Ph.D. to investigate structure-function relationships in proteins with intrinsic molecular chaperone activity and exploit their discoveries to improve the folding of recombinant proteins in *E. coli*. Applicants must have a solid background in bacterial genetics and molecular biology, a demonstrable interest in macromolecular structure, a strong publication record, and excellent recommendations in order to qualify for this competitive fellowship.

An interactive and exciting environment for learning and discovery, the ABL-Basic Research Program at the National Cancer Institute-Frederick Cancer Research and Development Center (<http://nmrsgil.ncifcrf.gov:80/abl>) is located in a beautiful and affordable small town setting near Washington and Baltimore. We offer competitive postdoctoral stipends and a comprehensive benefits package. Please send curriculum vitae and contact information for three references (no telephone calls, please!) to:

Dr. David S. Waugh
c/o Human Resources
ABL-Basic Research Program
NCI-FCRDC
P.O. Box B, Building 428
Frederick, MD 21702-1201



*An Equal Opportunity/
Affirmative Action Employer*



St. Jude Children's Research Hospital

ALSAC • Danny Thomas, Founder

The Department of Pharmaceutical Sciences at St. Jude Children's Research Hospital (SJCRH) is dedicated to understanding the molecular basis for human variation in therapeutic drug response. The program is open to M.D.s, Ph.D.s, or Pharm.D.s with training in molecular biology who wish to apply their skills to significant problems in drug mechanisms and effects. The Department currently has several openings in research groups specializing in the following areas:

William E. Evans - Molecular mechanisms of genetic polymorphisms in drug metabolism; pharmacodynamics of antileukemic agents.

Mary V. Relling - Mechanisms of genetic susceptibility to leukemogenesis of anticancer drugs and interindividual variability in anticancer drug metabolism.

John H. Rodman - Clinical pharmacology of anti-retroviral agents in children.

Clinton F. Stewart - Cellular determinants of the pharmacology of topoisomerase interactive agents; pharmacokinetic and pharmacodynamic studies in animal model systems.

Erin G. Schuetz - Studies exploring the interactions between cytochrome P450A substrates and inducers at the level of their common membrane transporter, P-glycoprotein.

John D. Schuetz - Molecular biology of factors regulating/interacting with the multidrug resistance gene family members using gene knockouts and other molecular biological approaches.

Applicants should submit a C.V., and the names of three references to one of the above faculty members, c/o SJCRH, Dept. Pharm. Sciences, 332 N. Lauderdale St., Memphis, TN 38105.

Affirmative Action/Equal Opportunity Employer

POSTDOCTORAL FELLOWS

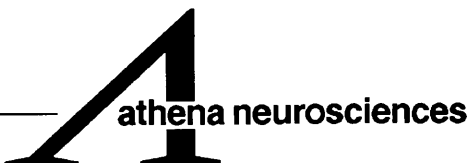
Athena Neurosciences, Inc., a world leader in CNS research, has excellent opportunities for highly motivated, hands-on professionals in our South San Francisco facility. Candidates possessing a Ph.D. or recent postdoctoral fellowship(s) in the appropriate area(s) are encouraged to apply. Positions are immediately available in the following areas:

Molecular Biology • You will study expression and roles of genes involved in animal models and CNS diseases, and isolate novel genes involved in the pathogenesis of Alzheimer's Disease. Requires extensive experience in molecular biology, with emphasis on quantitative gene expression techniques, or mammalian and yeast expression cloning. (Job# SC0926-MB)

Neurobiology • You will characterize functional endpoints in human cortical neurons and/or human cortical microglia in response to beta amyloid treatment. Complementary studies in transgenic mouse models of Alzheimer's Disease would also be anticipated. Skills required include primary CNS tissue culture, and expertise in cell biology, signal transduction, biochemistry and/or molecular pharmacology. (Job# SC0926-N)

Biochemistry • You will be involved in developing techniques for affinity purification, and designing and establishing assays for novel enzyme targets in Alzheimer's disease. Must have experience in protein expression and purification, enzymology, or cell biology. Experience in working with tissue culture desired. (Job# SC0926-B)

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Available immediately, to study the cell to cell trafficking of knotted1 gene products. We showed that the KN1 protein traffics through plasmodesmata, suggesting a mechanism for the non-cell autonomy of Kn1 gene action (see Lucas et al., Science, 270: 1980-1983, Jackson and Hake, Curr. Op. Gen. Dev., 7:4). A combination of cell biology and genetic methods will be used to elucidate the mechanism and role of cell to cell trafficking of KN1 during plant development. Candidates should ideally have experience in microscopy and/or Arabidopsis molecular genetics. Please send a CV, description of prior experience and the names of three referees to: **David Jackson, Cold Spring Harbor Laboratory, One Bungtown Road, Cold Spring Harbor, New York 11724** e-mail: jacksond@cshl.org.

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POSTDOCTORAL RESEARCH FELLOW

The Department of Neurosurgery is seeking a highly motivated individual to study the mechanisms of receptor mediated neuronal damage in traumatic brain injury and stroke. The successful applicant will have a Ph.D. or M.D. with training in pharmacology and/or biochemistry. Experience with molecular biology techniques, receptor binding assays, and Western and Northern blots helpful. The individual will work under the direction of a neuroscience faculty member recently recruited from Harvard Medical School. The applicant will be engaged in the development of innovative approaches to the treatment of acute and chronic neuronal degeneration and the identification of signal transduction pathways involving DNA damage and apoptosis. Please forward curriculum vitae and three references to: **Dr. Sherry Bursztajn, Ph.D. c/o Lisa Ward, Department of Neurosurgery, Louisiana State University Medical Center-Shreveport, 1501 Kings Highway, Shreveport, LA 71130.** *LSUMC is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION UNIVERSITY OF CALIFORNIA, IRVINE

A Postdoctoral position is available immediately to study TGF- β /BMP signal transduction in *Drosophila*: specifically modulation of ligand activity, signal transduction during embryonic development, and transcriptional control of genes in the TGF-beta pathway (*Genes and Dev*, 8:2588, 1994; *Cell*, 80:899, 1995; *Cell*, 81:781-790, 1995; *Annals New York Acad. Sciences*, 785:80-97, 1996). Experience in protein biochemistry, tissue culture, and/or molecular biology is highly desirable. Please send a curriculum vitae including a statement of research interests and letters of recommendation to: **Dr. K. Arora, Department of Developmental and Cell Biology, University of California-Irvine, Irvine, CA 92697-2300.** E-mail: karora@uci.edu.

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EPIDEMIOLOGICAL MATHEMATICAL MODELING POSTDOCTORAL POSITION

Postdoctoral position available immediately for mathematical modeling (differential equations) and data analysis of virus transmission and effects of drug treatment on virus transmission and resistance. Experience with mathematical modeling and computer programming required. Please send curriculum vitae and names of two referees by mail, FAX, or e-mail to: **Dr. Bruce R. Levin, Department of Biology, Emory University, Atlanta, GA 30322.** E-mail: blevin@emory.edu; FAX: 404-727-2880.

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POSTDOCTORAL/RESEARCH SCIENTIST positions available to examine the regulation and function of metallo- and cysteine proteinases during tissue-invasive and -destructive processes (e.g., transendothelial cell migration, angiogenesis, metastasis, inflammation). Individuals with strong background in proteinase biochemistry/molecular biology, extracellular matrix biology, or leukocyte-endothelial cell function preferred. Send curriculum vitae and letters of reference to: **Stephen J. Weiss, M.D., Upjohn Professor of Medicine, University of Michigan Cancer Center, 5301 MSRB III, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0640.**

POSTDOCTORAL POSITION IN BRAIN NMR

Research in neurotransmitter metabolism using *in vivo* nuclear magnetic resonance spectroscopy. Experience in ^{13}C or ^{15}N NMR essential, in brain dialysis and/or high-pressure liquid chromatography helpful. A three-year NIH-funded position. A U.S. citizen or permanent resident. Send résumé and the names of three references to: **Dr. B. D. Ross, Huntington Medical Research Institutes, 660 South Fair Oaks Avenue, Pasadena, CA 91105.** FAX: 626-397-3332. *Equal Opportunity Employer.*

POSTDOCTORAL FELLOWSHIP available immediately to study nuclear functions of S100 proteins during regenerative differentiation and carcinogenesis (*Cancer Res.* 57:3055; *Biochemistry* 34:7834). *Funding restrictions limit eligibility to U.S. citizens and permanent residents.* Send curriculum vitae and references to: **Dr. James T. Elder, 3312 CCGC, University of Michigan, Ann Arbor, MI 48109-0932.** FAX: 313-763-4575; e-mail: jelder@umich.edu. *An Equal Opportunity/Affirmative Action Employer. Minority applicants encouraged.*

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POSTDOCTORAL POSITION in Breast Cancer Research available immediately to investigate the role of tissue estrogen and growth factors in breast cancer using *in vivo* transgenic models. Applicant should have Ph.D. or M.D.-Ph.D., and strong background in molecular biology and relevant experience. Send curriculum vitae, a statement of experience, and the names of three references to: **Dr. Rajeshwar R. Tekmal, Emory University School of Medicine, Department of Gynecology/Obstetrics, 4219 WMB, 1639 Pierce Drive, Atlanta, GA 30322.** FAX: 404-727-8615; e-mail: rtekmal@emory.edu. *Emory University is an Equal Employment Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available to study signal transduction in growth control and tumorigenesis. Current projects focus on RAS and G protein effector pathways and employ yeast, mammalian cell culture, and animal model systems. Experience in cellular and molecular biology required. Cell culture and/or protein biochemistry experience desirable. Send curriculum vitae with list of references to: **Dr. John Colicelli, Department of Biological Chemistry, 33-257 CHS, UCLA School of Medicine, Los Angeles, CA 90095-1737.** E-mail: colicelli@biochem.medsch.ucla.edu; website: <http://149.142.90.241/som/biochem/labs/colicelli.htm>.

POSTDOCTORAL POSITION available immediately to study defective brain development and neurodegeneration in animal models of Down syndrome and Alzheimer's disease. Experience with computer-assisted Ca^{2+} imaging, confocal microscopy, organotypic brain slices, or behavioral measurements of learning and memory preferred. Please send short statement of research interests, curriculum vitae, and names of three references to: **Dr. Bruce K. Krueger, Department of Physiology, University of Maryland School of Medicine, 655 West Baltimore Street, Baltimore, MD 21201.** E-mail: bkrueger@umabnet.ab.umd.edu.

POSTDOCTORAL FELLOW. Applications are invited for two immediate postdoctoral fellowships to study hematopoietic stem cell genetics and cancer gene therapy. Candidates with a Ph.D. degree in biochemistry, genetics, or molecular biology are preferred. Please submit a curriculum vitae and the names of three references to: **Michael F. Clarke, M.D., University of Michigan Medical School, Department of Internal Medicine and Molecular and Cellular Biology, 1500 East Medical Center Drive, 4-310 CCGC, Ann Arbor, MI 48109-0936.** FAX: 313-763-4226. *An Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION is immediately available for a two-year appointment at the University of Washington School of Medicine to study the role of T cells in preventing HIV-1 infection and disease. Strong background in molecular and cellular immunology is preferred. Send curriculum vitae and names of three references to: **Dr. Julie McElrath, Program in Infectious Diseases, M-115, Fred Hutchinson Cancer Research Center, 1124 Columbia Street, Seattle, WA 98104.** *The University is an Equal Opportunity/Affirmative Action Employer.*

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POSTDOCTORAL/RESEARCH ASSOCIATE

Molecular modeling and molecular dynamics research involving (1) the design of new anti-*Pneumocystis carinii* agents capable of discriminating between the *Pneumocystis carinii* and human dihydrofolate reductases and (2) the design of thermostable proteins. CHARMM experience preferred. Send curriculum vitae and references to: **Dr. William M. Southerland, Department of Biochemistry and Molecular Biology, Howard University College of Medicine, 520 W Street N.W., Washington, DC 20059.** E-mail: bill@lmc.med.howard.edu or wsoutherland@fac.howard.edu.

POSTDOCTORAL POSITION available immediately to study mechanisms which activate glucose transport in 3T3-L1 adipocytes. Experience in molecular and cell biology desirable. *Applicant must be a U.S. citizen or permanent resident in order to apply for federal funding.* Send curriculum vitae and the names of three references to: **Dr. Susan C. Frost, Department of Biochemistry and Molecular Biology, Box 100245, University of Florida, Gainesville, FL 32610.** *The University of Florida is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available to study receptor-transcription factor coupling, regulation of gene expression, and gene products responsible for resistance to Fas-mediated apoptosis, in B lymphocytes. Individuals with a background in molecular biology, biochemistry, or intracellular signaling are preferred. Send curriculum vitae and the names of three references to: **Dr. Thomas L. Rothstein, Room E-556, Boston Medical Center, 88 East Newton Street, Boston, MA, 02118.** E-mail: trothstein@med-med1.bu.edu; FAX: 617-638-7530.

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ANNOUNCEMENT

APOLOGY. It has come to the attention of the publishers, R.G. Landes, that a chapter in *Cell Architecture and Metabolic Channeling* published by them in 1995, contains a number of unacknowledged quotations from an article by **Malcolm Watford** (Rutgers University) entitled "The Urea Cycle: A Two-Compartment System" in *Essays in Biochemistry*, volume 26, 1991 published by Portland Press, Ltd. on behalf of the Biochemical Society. The publishers apologize to the Biochemical Society and **Dr. Watford** for this breach of copyright.

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