



Nucleic Acid Vacuum Concentrator

The RC10.10 centrifugal vacuum concentrator is designed to rapidly concentrate DNA by combining centrifugal force, high vacuum, and heat to remove the solvent. This combination results in virtually 100% sample recovery with no contamination. The standard system comes complete with a high-capacity, Teflon-lined, oil-free pump; the model RC10.10 vacuum concentrator; an 84 ml by 1.5 ml rotor; an automatic bleeder valve; a

PRODUCTS



chemical trap; a molecular sieve cartridge; and all the needed connections and tubing. A non-warping, non-clouding heavy glass lid forms a positive seal for the vacuum chamber. A variable heater is mounted around the drying chamber to offset the cooling effect of the evaporation process. **Jouan.** For information call 800-662-7477 or circle 142 on the Reader Service Card.

AutoFluorescent Proteins

A full complement of vectors designed for the rapid and easy generation of green and blue fusion proteins is available. These new vectors contain multiple cloning sites placed to allow the creation of COOH-terminal fusions or NH₂-terminal fusion proteins or peptides. The vectors have been designed as functional cassettes, allowing the isolation of the promoter region. **Quantum Biotechnologies.** For information call 888-362-5487 or circle 143 on the Reader Service Card.

Detergents Preserve Protein Function

Two new low-peroxide, low-carbonyl Tween detergents provide consistent results without altering protein function. The products are suited for isolating, puri-

fying, and preserving nonspecific binding proteins; manufacturing recombinant proteins; solubilizing specimens; maintaining reagents in solutions; and performing lysis of cells. The detergents are formulated to protect sensitive proteins from oxidation and denaturation. **Sigma.** For information call 800-325-3010 or circle 144 on the Reader Service Card.

RNA Isolation

The RNeasy 96 Kit allows high-quality RNA isolation from 96 samples in less than 1 min per prep, removing the key bottleneck to high-throughput transcription pattern analysis. There is no phenol extraction or ethanol precipitation. The total RNA isolated is appropriate for any use, including demanding applications such as real-time quantitative reverse transcriptase polymerase chain reaction analysis. **Qiagen.** For information call 805-295-7447 or circle 145 on the Reader Service Card.

Walk-In Fume Hoods

The Protector Walk-In Fume Hoods can accommodate laboratory procedures that require cumbersome equipment or maximum work areas. Applications requiring distilling racks, extraction apparatus, or large drums and carboys benefit from the increased height these hoods provide. They come in 5-, 6-, and 8-foot sizes. The liner is a specially formulated fiberglass-reinforced polyester that is corrosion- and fire-resistant. The exterior is durable epoxy-coated steel. The hoods have a built-in bypass system that reduces face velocity fluctuations. They include preset upper baffles and adjustable lower baffles for efficient fume removal. **Labconco.** For information call 800-821-5525 or circle 146 on the Reader Service Card.

Light-Tight Chemiluminescence Cabinet

The MultiImage Light Cabinet provides a light-tight environment for imaging chemiluminescent samples and provides a variety of illumination and filtering options for other samples. The cabinet fits on top of many standard ultraviolet (UV) transilluminators. Gels stained with ethidium bromide, SYBR Green, and SYPRO Orange can be illuminated by the UV transilluminator or with epi-illumination from optional UV sidelights. A spe-

cial interlock switch prevents accidental exposure to UV rays when the cabinet is opened. The switch can be overridden if desired. The cabinet also contains a fold-down 21 cm by 31 cm transmitting white light table and dual reflective white lights. These features enable the user to image diverse samples such as protein immunoblots, autoradiographs, Coomassie blue gels, and silver-stained gels. **Alpha Innotech.** For information call 800-795-5556 or circle 147 on the Reader Service Card.

DNA-Binding Protein Purification

The DNA-Binding Protein Purification Kit allows the user to directly ligate a DNA sequence of interest to magnetic particles via a tether nucleotide, with no need for activating media with toxic cyanogen bromide or for laborious liquid chromatography. The magnetic particles can isolate 2 µg to 40 µg DNA-binding proteins from crude extracts in less than 2 hours. The procedure is particularly suited for gene regulatory proteins and transcription factors. **Boehringer-Mannheim.** For information call 800-428-5433 or circle 148 on the Reader Service Card.

Literature

The seventh edition of *The Biochemical Basis of Neuropharmacology* includes chapters on the gaseous neuromodulators, nitric oxide, and carbon monoxide. **Research Biochemicals.** For information call 800-736-3690 or circle 149 on the Reader Service Card.

Current Protocols in Cytometry provides scientists with carefully prepared, clearly presented, and finely tuned methods in the fields of flow and image cytometry. The volume covers the complete range of techniques employed in flow cytometry, from instrumentation to interpretation, from fluorescence to antigen density, from research to clinical applications. **John Wiley & Sons.** For information call 800-825-7550 or circle 150 on the Reader Service Card.

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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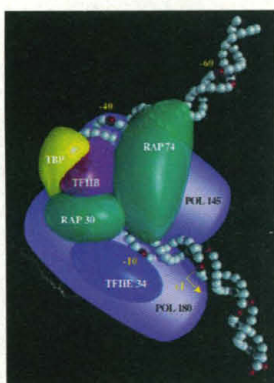
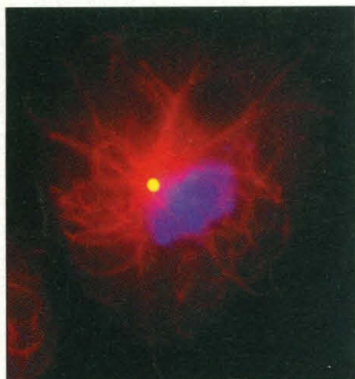
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POSITIONS OPEN

TENURE-TRACK FACULTY POSITION CHEMICAL AND BIOCHEMICAL ENGINEERING

Thayer School of Engineering, Dartmouth College

Dartmouth's Thayer School is both a department of engineering sciences and a graduate professional school of engineering. Degrees granted include an A.B. degree, ABET-accredited B. E. degree, M.S. and Ph.D. degrees in engineering sciences, as well as a Master's of engineering management. Our academically diverse faculty of approximately 30 is dedicated to intellectual pioneering in teaching, research, and design. Within an interdisciplinary framework, over a dozen faculty are active in teaching and research involving chemical and biochemical engineering, with focus areas including biochemical, biomedical, and environmental engineering, material science, fluid mechanics, and thermodynamics.

Candidates will be evaluated based on their potential to establish an internationally recognized research program and to excel as a teacher/educator. We are particularly interested in candidates who: (1) contribute to building a distinctive research strength involving biological production of commodity products from sustainable resources, and (2) have interests and skills that complement the character and organization of the school. The level of appointment will depend on experience and qualifications. A cover letter and curriculum vitae should be sent to: Dr. Lee Lynd, Thayer School of Engineering, Dartmouth College, Hanover, NH 03755. Telephone: 603-646-2231; e-mail: lee.lynd@dartmouth.edu. Review of candidates will begin on February 1, and will continue until the position is filled. Dartmouth College is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and members of minority groups.

FACULTY POSITIONS

The Department of Biological and Exercise Sciences at Northeastern Illinois University invites applications for the following tenure-track **ASSISTANT PROFESSOR** positions beginning fall, 1998. An earned doctorate in a relevant discipline is required. Research and service are encouraged and expected.

Molecular biology and biochemistry: Teaching courses in molecular biology, genetics, biochemistry, and in areas of specialization. Participation in general biology courses for majors and non-majors. Research involving undergraduate and graduate students.

Exercise science: Experience or training in cardiac rehabilitation, preventative medicine programming, exercise/human performance, or exercise physiology. Teaching and research supervision in the Master's program are expected.

Review of applications will begin January 15, 1998, and continue until position is filled. Send curriculum vitae, statements of research and teaching interests, and three letters of recommendation, at least concerning teaching effectiveness, to: Dr. Simon Chung, Department of Biological and Exercise Sciences, Northeastern Illinois University, 5500 North St. Louis Avenue, Chicago, IL 60625. Affirmative Action/Equal Opportunity Employer.

TENURE-TRACK FACULTY POSITION DEPARTMENT OF PHARMACOLOGY COLLEGE OF MEDICINE

University of Illinois at Chicago

The Department of Pharmacology invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, or PROFESSOR** level. Applicants must have a Ph.D. and/or M.D. degree. Associate Professor and Professor applicants are expected to have a strong ongoing extramurally funded research program, and Assistant Professor applicants should have demonstrated the ability to develop an independent research program and be competitive for NIH support. Priority research areas include cardiovascular biology, signal transduction, ion channel regulation, cell growth/differentiation/apoptosis, and structural biology. UIC offers a highly competitive compensation package, significant start-up funds, and laboratory space with state-of-the-art research facility. Please send a complete curriculum vitae, a brief statement of research interest, and the names of three references to: Dr. Stephen Lam, Chair, Faculty Search Committee, Department of Pharmacology (m/c 868), University of Illinois at Chicago, 835 South Wolcott Avenue, Chicago, IL 60612. For fullest consideration, please submit applications by January 15, 1998. University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITION IN MOLECULAR VISUAL SCIENCES MASSACHUSETTS EYE AND EAR INFIRMARY

The Department of Ophthalmology of Harvard Medical School at the Massachusetts Eye and Ear Infirmary invites applications for a faculty position at the level of **ASSISTANT or ASSOCIATE PROFESSOR**. Applicants should have a Ph.D., M.D., or relevant degree, postdoctoral training, and a commitment to establishing an independent research career in the field of molecular and physiological biology of vision.

Candidates are sought with strong backgrounds in biochemistry, molecular or cell biology, development, genetics, gene therapy, and/or physiology. The appointee will join a group of basic scientists addressing the normal function and malfunction of the retina, pigment epithelium, and aspects of glaucoma as pertaining to human ocular diseases. He/she will be expected to teach and participate in a graduate program for the molecular bases of eye diseases. Excellent start-up package and research facilities are available.

Applications must be received by 1 February 1998. Please forward a curriculum vitae, brief description of proposed research, representative reprints, and arrange for three letters of recommendation to be sent to:

Ms. Lois Toutwid
Harvard Medical School
Department of Ophthalmology
Massachusetts Eye and Ear Infirmary
243 Charles Street
Boston, MA 02114

Harvard Medical School and the Massachusetts Eye and Ear Infirmary are Affirmative Action/Equal Opportunity Employers.

FACULTY POSITION UNIVERSITY OF PITTSBURGH CANCER INSTITUTE

The University of Pittsburgh Cancer Institute (UPCI) is seeking an **ASSISTANT or ASSOCIATE PROFESSOR** to join the Lung Cancer Center Basic Science Program. The successful candidate will become a member of the UPCI and receive a tenure-track position in an appropriate department in the University of Pittsburgh School of Medicine. The candidate will be expected to establish an externally funded research program and to help develop a translational research program in lung cancer in collaboration with other members of the UPCI Lung Cancer Center. The position is available immediately and will remain open until filled. Research areas of particular interest are lung cancer genetics, biomarkers, and early detection of lung cancer.

Applicants should have a Ph.D. and/or M.D. degree and postdoctoral training. Send curriculum vitae, summary of research interests, and names of three references to:

Jill M. Siegfried, Ph.D.
Director, UPCI Lung Cancer Center
Basic Science Program
Department of Pharmacology
University of Pittsburgh School of Medicine
E1340 Biomedical Science Tower
3500 Terrace Street
Pittsburgh, PA 15261

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SCIENTIST/FACULTY POSITIONS IN PATHOGENS AND HOST IMMUNITY

Applications are invited for **STAFF or SENIOR SCIENTIST** positions at Seattle Biomedical Research Institute (SBRI) with parallel **REGULAR or RESEARCH ASSISTANT, ASSOCIATE, or FULL PROFESSOR** appointments in the Department of Pathobiology, University of Washington (UW). Areas of interest include mechanisms of microbial pathogenesis and the host immune response. Areas of current expertise include viral, bacterial, fungal, and protozoan diseases of the developed and developing world. Applicants must have a Ph.D., minimum two years of postdoctoral experience, an independently funded research program, and an interest in graduate student training. Classroom teaching is required for faculty in the Regular track. Teaching is also required in the Research track. Please send curriculum vitae, statement of proposed research, and the names and addresses of four references to: Search Committee, Seattle Biomedical Research Institute, 4 Nickerson Street, Seattle, WA 98109-1651. Closing date: 2 January 1998. The UW is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. SBRI and UW are Equal Opportunity/Affirmative Action Employers.

Post-Doctoral Research at The Wistar Institute

The Wistar Institute, dedicated to attracting the brightest minds in science, is offering post-doctoral positions on an NIH-funded training program entitled "Immunobiology of Vaccine." Selected candidates will train with immunologists, virologists, structural biologists, and chemists in the field of vaccine design and development.

Candidates must be U.S. citizens or permanent residents with a maximum of three years of post-doctoral training. Minorities are strongly encouraged to apply. We offer competitive salary and benefits, as well as the opportunity to learn from and interact with internationally recognized scientists from The Wistar Institute and the University of Pennsylvania.

If you possess the creativity, intelligence and motivation necessary to meet the high expectations of our trainers (A. Canton, W. Gerhard, E. Gonczol, H.C.J. Ertl, E. Heber-Katz, C. Hunter, R. Marmorstein, P. Offit, L. Otvos, P. Scott, and G. Trinchieri), then please forward your C.V. and three letters of recommendation to: Andrew G. Assalian, The Wistar Institute, 3601 Spruce Street, Room 283, Philadelphia, PA 19104. The Wistar Institute is an Equal Opportunity Employer.



FULL PROFESSOR ENVIRONMENTAL HEALTH AND TOXICOLOGY DEPARTMENT OF BIOLOGICAL SCIENCES

Your duties will include teaching and providing guidance to students at all university levels, carrying out research in the field as well as performing community services.

You hold a PhD in an area of Environmental Health, Toxicology or Environmental Sciences, or in a related discipline. You have the ability to conduct research and to immediately undertake a research program in animal or human environmental health. Postdoctoral research experience in animal or human environmental health or in animal or human toxicology would be advantageous. Teaching experience at all university levels in pharmacology, physiology, or animal and human toxicology is required, as is a file of recent publications. An excellent knowledge of French, written and spoken, is essential.

STARTING DATE: June 1, 1998

The university has adopted an employment equity program for professors and encourages applications from women, members of visible minorities, aboriginal people and persons with a disability. In accordance with Canadian immigration requirements, this position is offered to Canadian citizens or permanent residents.

REMUNERATION: According to the university's collective agreement for professors

Interested candidates are asked to forward a detailed French curriculum vitae, signed and dated, along with three letters of recommendation, before 5 p.m., January 20, 1998, to Ms. Julie Lafond, PhD, Director, Department of Biological Sciences, Université du Québec à Montréal, P.O. Box 8888, Downtown Station, Montreal, Quebec, Canada H3C 3P8. Telephone: (514) 987-3000, ext. 7857; Fax: (514) 987-4647; E-mail: lafond.julie@uqam.ca; Internet: <http://www.rhu.uqam.ca>



Université du Québec à Montréal

NORTHEASTERN OHIO UNIVERSITIES COLLEGE OF MEDICINE

POSTDOCTORAL RESEARCH FELLOW

MOLECULAR BIOLOGY OF BILE ACID SYNTHESIS

POSTDOCTORAL positions (two, NIH-funded) are available immediately to study molecular mechanisms of transcriptional regulation of the genes in bile and cholesterol metabolisms (Am. J. Physiol. G508, 1997; J. Biol. Chem. 272, 9833, 1997). Applicants should have a Ph.D. in biochemistry or molecular biology with experiences in gene cloning, sequencing, and expression; tissue culture; protein purification; and, DNA-protein interaction. Please submit curriculum vitae by **December 31, 1997**, and arrange two letters of recommendation to Human Resources, c/o John Chiang, Ph.D., NORTHEASTERN OHIO UNIVERSITIES COLLEGE OF MEDICINE, 4209 State Rt. 44, PO Box 95, Rootstown, OH 44272-0095. Fax: 330-325-0246; E-mail: jchiang@neoucom.edu. We take affirmative action toward equal employment opportunity.



Northeastern Ohio Universities
COLLEGE OF MEDICINE



OREGON HEALTH SCIENCES UNIVERSITY BIOCHEMISTRY & MOLECULAR BIOLOGY

TWO SENIOR FACULTY

The Department of Biochemistry and Molecular Biology at OHSU, School of Medicine, is undergoing a period of expansion. We are interested in recruiting two senior faculty members who will supply leadership to our developing programs. Areas of particular interest include: structure, function, and regulation of membrane proteins, protein trafficking, physical biochemistry of macromolecules, enzyme mechanisms, and molecular biophysics. We are interested in scientists who are using modern techniques of biochemistry and biophysics to investigate cellular events at the molecular level. This opportunity may appeal to two senior scientists who would like to relocate together.

We will offer attractive salary and start-up packages and the opportunity to play a key role in the development of an interactive department in a stimulating scientific environment set in one of the most desirable areas in the country. Applications should be received by January 15, 1998. Informal inquiries can be made via e-mail, kaplanj@ohsu.edu.

Interested candidates should have a sustained record of externally funded research. Send a copy of your curriculum vitae, a description of research interests, and the names of three references to:

Professor Jack H. Kaplan, Ph.D., F.R.S.
Faculty Search (S)

Department of Biochemistry and Molecular Biology
Oregon Health Sciences University
3181 S.W. Sam Jackson Park Road
Portland, OR 97201-3098

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**DIRECTOR, DIVISION OF INTERNATIONAL PROGRAMS
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Arlington, VA 22230

NSF seeks qualified candidates for the position of Director, Division of International Programs (INT). The incumbent will serve on the leadership team of the Directorate for Social, Behavioral, and Economic Sciences and provide agency-level leadership and direction for NSF's initiatives involving international science and engineering and coordination in all disciplines supported by NSF.

Employment for this Senior Executive Service (SES) position may be on a temporary or permanent basis in the Federal service, with a salary in the ES-1 to ES-4 range (currently \$103,897-\$119,856) for new appointees. Alternatively, the incumbent may be assigned under Intergovernmental Personnel Act provisions.

Applicants must have a Ph.D. or equivalent professional experience in a field of science or engineering and demonstrated ability to lead people and manage a complex organization. Other requirements include understanding the roles and relationships of national and international policy-making components and the ability to formulate effective strategy to foster international S&E partnerships. Ability in coordinating with a wide range of government, non-government, and academic organizations and officials involved in Federal S&E research and education support programs is also required.

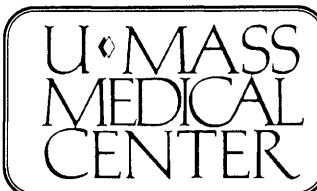
The announcement (EP 98-1), which includes position requirements and application procedures, may be accessed on the NSF Home Page at <http://www.nsf.gov/home/chart/work.htm#hrm>. Applicants may also obtain a copy of the announcement by contacting NSF's Executive Personnel and Development Branch at 703-306-0755 (hearing impaired individuals may call TDD 703-306-0189). The formal consideration process will begin in mid-January.

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**FACULTY POSITIONS IN
MAMMALIAN GENETICS**

The University of Massachusetts Medical Center invites applications for TENURE-LEADING FACULTY POSITIONS which are immediately available. Positions which are associated with a new Howard Hughes interdisciplinary programmatic initiative in mammalian genetics will include an appointment in an academic department as well as a generous multi-year start-up package. Applicants should possess a Ph.D., M.D., or M.D./Ph.D. degree, and should have several years of relevant postdoctoral experience. Successful applicants will be expected to develop an extramurally-funded research program, to participate in educational programs in genetics for graduate and medical students, and to contribute to the realization of a center in Mammalian Genetics. (More senior applicants should have an established and funded research program.) Preferred research areas include rodent or human cancer genetics, developmental genetics, pharmacogenetics, or immunogenetics, although high quality research in any related area will be given consideration.

Applicants should send a curriculum vitae, a one-page statement of research interest and names (including email addresses) of three references to: Dr. Edward Bresnick, Vice Chancellor for Research, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655; edward.bresnick@banyan.ummed.edu



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**DNA SEQUENCING/
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**FACULTY POSITIONS
DEPARTMENT OF HUMAN GENETICS
THE UNIVERSITY OF CHICAGO**

A new Department of Human Genetics has been established at the University of Chicago, chaired by David H. Ledbetter, Ph.D. Strengths of the university genetics community include outstanding programs in cancer genetics, molecular cytogenetics, complex disease analysis, evolution, and population genetics. We are recruiting tenure-track faculty in broad areas of human genetics research, including (but not limited to) neurogenetics, cancer genetics, chromosome structure/function, and computational or experimental genomics. State-of-the-art research space is located in the new Institute for Molecular Medicine and generous start-up funds are available. Applicants must have a demonstrated ability to develop an independently funded research program of the highest caliber. Physician scientists (M.D. or M.D./Ph.D.) with ABMG Board certification are encouraged to apply. Although the search is primarily for Assistant Professor level scientists, appointments at other levels, including senior appointments, will be considered.

Send a curriculum vitae, a short summary of research plans, and the names of three references to:

**Chair, Human Genetics Search Committee
Department of Human Genetics
The University of Chicago
924 East 57th Street, R-110
Chicago, IL 60637**

Website: <http://www.genes.uchicago.edu>

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Western Michigan University seeks a full-time director for its new Environmental Research Center beginning July, 1998. This center, which is part of the College of Arts & Sciences, will enhance existing academic and research programs by promoting interdisciplinary environmental research. A candidate for this position should have an active research program and must have successfully competed for environmental research grants, administered grants, and collaborated with investigators from different disciplines among the natural and social sciences. He/she will have a one-year term, renewable for one year, appointment as an associate or full professor with possibility of renewal or tenure in one of the departments of the College. Salary and fringe benefits are competitive. *Western Michigan University, a Carnegie Classification Doctoral I Institution and Equal Opportunity Employer, has an Affirmative Action program which encourages applications from underrepresented groups.* Please send by December 31 your vitae, a list of four references with telephone number, fax, e-mail, and addresses, a statement of research interests, and a cover letter describing your vision and approach for fostering interdisciplinary research and collaboration to: Leonard Ginsberg, Associate Dean, College of Arts & Sciences, 1201 Oliver Street, Western Michigan University, Kalamazoo, MI 49008, (617) 387-4355, INTERNET: leonard.ginsberg@wmich.edu. See www.wmich.edu/cas.

Sequana Therapeutics, Inc.

Sequana Therapeutics, Inc. is a leading genomics company that uses industrial-scale gene discovery and functional genomics technologies to develop products aimed at diagnosing and treating common human diseases. Sequana has strategic alliances with Glaxo Wellcome, Boehringer Ingelheim, Boehringer Mannheim and Parke-Davis, among other pharmaceutical and biotechnology companies. We are presently seeking the following talented individuals to contribute to our discovery programs.

Sr. Scientist - Computational Biology

As a key member of our Computational Biology group, you will provide DNA and protein sequence analysis, perform disease project data maintenance and analysis, and functional/positional gene candidate identification. The successful candidate must have a Ph.D. in a related field and a minimum of six years experience in a laboratory environment. You must be knowledgeable in computational biology, BLAST, GCG, Grail, C/C++, Perl, and JAVA. **CODE: Sci97-79**

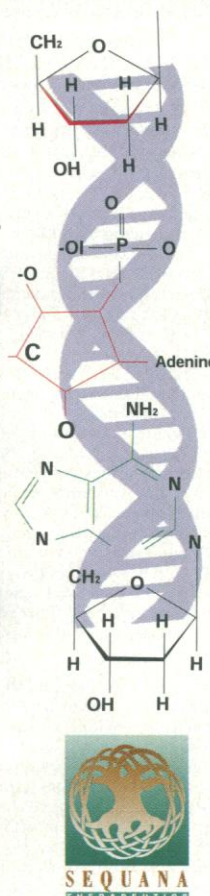
Lead Scientist - Sequencing

The successful candidate will design and perform sequencing and mutation detection experiments, analyze data, assist in data management, and participate in technology development related to sequencing and mutation detection. An M.S. degree in Molecular Biology or related field preferred, with minimum of two years experience in automated DNA sequencing and data analysis. Familiarity with positional cloning and gene identification techniques is preferred. **CODE: Sci97-78**

Lead / Sr. Scientist - Statistical Genetics

The successful candidate will perform linkage and association analysis of human and animal genetic data for common and complex disease programs and help to develop novel approaches in genetic data analysis. A Ph.D. in human, quantitative, or behavioral genetics, or related field, and knowledge of the methods of genetic data analysis, are a must. Experience with statistical genetics analysis software and UNIX operating system, and postdoctoral work are preferred. We are looking for a team-player with good communication skills. **CODE: Sci97-77**

As a publicly held corporation, Sequana is proud to offer a stimulating scientific setting along with a highly competitive salary and benefits package, including stock options and relocation assistance. Please mail or fax your CV to: Sequana Therapeutics, Inc., Attn: HR/Code (see above), 11099 N. Torrey Pines Rd., #160, La Jolla, CA 92037. Fax: (619) 452-6653. www.sequana.com. EOE.



DIRECTOR, DIVISION OF PHYSICS NATIONAL SCIENCE FOUNDATION Arlington, VA 22230

NSF's Directorate for Mathematical and Physical Sciences seeks qualified candidates for the position of Director, Division of Physics (PHY). The incumbent provides overall direction and management to NSF program activities supporting research and education endeavors in the following areas of experimental and theoretical physics: atomic, molecular, optical, and plasma physics; elementary particle physics; gravitational physics; nuclear physics; and biological physics. The Division Director will interact with programs throughout NSF with related interdisciplinary activities, and will work as an integral part of the MPS management team.

Appointment to this Senior Executive Service position may be on a career basis, or on a 2- to 3-year limited term basis, with a current \$103,897 to \$119,856 salary range for a new SES appointment. Alternatively, the incumbent may be assigned under Intergovernmental Personnel Act provisions. Applicants must have a Ph.D. or equivalent professional experience in physics or a closely related field, substantial research experience and strong evidence of scholarship in physics, recognized leadership in research administration, and demonstrated ability in leading people.

The announcements (EP 98-2), which includes position requirements and application procedures, is located on the NSF Home Page at <http://www.nsf.gov/home/chart/work.htm#hrm>. Applicants may also obtain a copy of the announcements by contacting the Executive Personnel and Development Branch on 703-306-0755 (Hearing impaired individuals may call TDD 703-306-0189). Applications must be received by January 9, 1998.

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EMPLOYER COMMITTED TO EMPLOYING A
HIGHLY QUALIFIED STAFF REFLECTING THE
DIVERSITY OF OUR NATION.**

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Gene Logic is a rapidly expanding company, based on the analysis of gene expression and gene regulation, designed to accelerate the discovery of novel drug targets and drug leads. The Company's objective is to provide its pharmaceutical company partners with novel drug targets, drug leads, and a suite of genomic database products to reduce the time, cost, and risk associated with drug discovery.

We are seeking B.S./M.S. and Ph.D. level scientists with expertise in:

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Ph.D. in analytical chemistry, molecular biology, or biochemistry with thorough understanding of electrophoresis and separation technology. The candidate should have previous industrial experience with in-depth knowledge of GMP procedures and applications of separation technology production. (Job #2010)

Assay Development/Enzymologist

Ph.D. in molecular biology or biochemistry with expertise in assay development in enzymology with emphasis on nucleic acid biochemistry and enzyme kinetics. Preference will be given to candidates with prior industrial experience and in-depth understanding of GMP-related issues. (Job #2020)

Research Associate

Successful candidates will have B.S./M.S. degree in molecular biology, biochemistry, or related field and be proficient in state-of-the-art molecular biology methods. Experience with high-throughput differential gene expression analysis, molecular biology techniques, PCR, RT-PCR, RNA extraction, cDNA and gel electrophoresis, as well as production of these reagents is desired. Reagent manufacturing with GMP/GLP experience is preferred for production positions. (Job #2030)

The Company offers a comprehensive employment package including a highly competitive compensation and benefit plan, stock options, and a challenging, team-oriented environment.

Please forward your CV with job # and three references to:

**GENE LOGIC
10150 Old Columbia Road
Columbia, MD 21046
Fax: 410 309 3111
EOE
(no calls please)**

POSITIONS OPEN

FACULTY POSITION PROGRAM IN MOLECULAR MEDICINE University of Massachusetts Medical Center

Immediate opening for a **SENIOR TENURED** or a **JUNIOR TENURE-TRACK** faculty position in an interdepartmental Molecular Medicine Program. The appointment will be made in a basic science department. Rank will be commensurate with ability and experience. The laboratories for the Program are housed in a modern building containing 80,000 square feet of research space. A wide variety of core facilities as well as 300 and 500 Mhz NMR spectrometers, R-axis II X-ray data collection systems, and an array of computational and molecular graphics facilities are available. The position will be highly competitive with regard to start-up funds, laboratory space, and salary.

The Program seeks an individual of outstanding research potential who is employing chemical approaches to study important biological problems. Areas of specific interest include, but are not limited to, bioorganic chemistry, protein or nucleic acid chemistry, development of novel chemical probes, drug design and action, medicinal chemistry, drug-macromolecule interactions; protein-ligand interactions, and macromolecule structure.

Applicants should send a curriculum vitae, statement of research interests, and names of three references to: **Michael P. Czech, Director, Program in Molecular Medicine, University of Massachusetts Medical School, 373 Plantation Street, Worcester, MA 01605.**

An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, PHYSIOLOGY (tenure-track). The Department of Biological Sciences, Bridgewater State College, invites applications for a full-time position beginning fall 1998. The position requires teaching animal physiology, human anatomy and physiology, introductory biology, and upper-level courses appropriate for the department's biomedical concentration. The successful candidate must have an earned Ph.D. and a strong commitment to teaching and research in an undergraduate setting, as well as to advising undergraduate students in the biomedical concentration and supervising original undergraduate research. Participation in equipment procurement is required. Teaching experience is preferred. Please submit curriculum vitae, a letter describing teaching and research interests, official transcripts, and names, addresses, and telephone numbers of three professional references to: **Office of Human Resources, Bridgewater State College, Bridgewater, MA 02325.** Review of applications will begin on January 2, 1998, and continue until the position is filled. *Bridgewater State College is an Equal Opportunity Employer which actively seeks to increase the diversity of its work force.*

BIOSCIENCE FACULTY POSITION

The New England College of Optometry is seeking applications for a full-time, tenure-track faculty position in the area of ocular biochemistry/molecular biology.

Applicants should have a history of research funding, enjoy working in a collaborative environment, and possess a sincere interest in teaching. A Ph.D. is required. The successful candidate will be expected to establish a strong independent research program and preference will be given to candidates interested in myopia or extracellular matrix research.

The College provides a committed and dynamic research environment with a demonstrated history of funding success. Faculty rank and salary will be commensurate with experience. Please send résumés to: **Dr. Mark Zorn, Chair, Department of Biosciences, The New England College of Optometry, 424 Beacon Street, Boston, MA 02115.** *The College is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN UROLOGY

The Department of Urology at Columbia University is seeking applications for a position at the level of **ASSISTANT PROFESSOR**. Applicants should have a distinguished record of scholarly activity. We are seeking applicants working in the field of developmental urology, using molecular biology, transgenic animal, and gene targeting techniques to study morphogenesis of the urinary tract. Send application, curriculum vitae, and three letters of reference to: **Dr. Carl A. Olsson, Chair, Department of Urology, Columbia University, 161 Fort Washington Avenue, New York, NY 10032.** *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION IN ISOTOPE ECOLOGY

The Department of Marine Science and the Marine Science Institute of The University of Texas at Austin invite applications for an Isotope Ecologist to hold a joint appointment as a tenure-track **ASSISTANT PROFESSOR** in the Department and as a **RESEARCH SCIENTIST** at the Institute. We seek applicants with experience in mass spectrometry and the application of stable isotopes in the study of marine environments. Candidates must have a Ph.D. degree. Preference will be given to candidates with postdoctoral experience and a strong publication record. The successful candidate will be expected to develop externally funded research programs and to contribute to graduate and undergraduate education through course instruction and student advising. Specifically, the candidate will be responsible for developing and teaching an undergraduate course in marine ecology. The position receives nine months of annual salary support from the State. Facilities at the Marine Science Institute include a new isotope ratio mass spectrometer coupled to an elemental analyzer system for automated sample preparation. For more information see our website: <http://www.utmsi.zo.utexas.edu>. Applicants should send a curriculum vitae, a statement of research and teaching interests, and the names and addresses of five references by January 23 to: **Search Committee Chairman, The University of Texas Marine Science Institute, 750 Channel View Drive, Port Aransas, TX 78373-5015.** *The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR DEPARTMENT OF BIOCHEMISTRY AND BIOPHYSICS TEXAS A&M UNIVERSITY

The Department of Biochemistry and Biophysics at Texas A&M University seeks applications for one tenure-track Assistant Professor. Applicants for this 12-month appointment should have demonstrated productivity and evidence of potential for establishing an independent research program focused on the structure and function of biological macromolecules and/or regulation of biological processes at the molecular level. In addition to research activities, participation in the Department's undergraduate and graduate teaching programs will be expected. A Ph.D. in biochemistry or a related field plus appropriate postdoctoral experience is required.

The Department of Biochemistry and Biophysics has more than 40 full-time faculty, 80 graduate students, and 500 undergraduate majors. The Department is housed in a new, spacious, and well-equipped research facility. The research interests of the faculty cover nearly all areas of modern biochemistry and molecular biology.

Completed applications should include: a curriculum vitae, a short description of research interests, reprints of significant publications, and three letters of recommendation. All materials should be sent to: **Dr. David P. Giedroc, Faculty Search Committee Chair, Department of Biochemistry and Biophysics, Texas A&M University, College Station, TX 77843-2128.** Review of applications will begin December 1, 1997. *Texas A&M University is an Affirmative Action/Equal Opportunity Employer.*

BIOCHEMIST

To support a new program, the Departments of Biology and Chemistry seek candidates for a tenure-track **BIOCHEMISTRY ASSISTANT PROFESSOR** position tenurable in either department. Applicants must be committed to teaching excellence at the undergraduate and M.S. levels, liberal arts education, and scholarly activity involving undergraduate and M.S. students. A Ph.D. in biochemistry or related field is required; postdoctoral experience is desirable. Applicants should submit a letter of application, curriculum vitae, a brief summary of research and teaching interests, unofficial undergraduate and graduate transcripts, and three letters of recommendation to: **Dr. Philip Kumler, Search Committee, Department of Chemistry, SUNY College at Fredonia, Fredonia, NY 14063.** Website: <http://www.fredonia.edu>. Review of applications will begin on February 2, 1998. *SUNY at Fredonia is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSITIONS OPEN

MEHARRY MEDICAL COLLEGE SCHOOL OF MEDICINE Research Centers in Minority Institutions (RCMI) and the Department of Biochemistry

Faculty positions are available in 1997-98 at the **ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, or PROFESSOR** levels in the area of cell signaling, which has been targeted for expansion at the College. Initial funding for these positions is provided by an NIH-funded RCMI program at the College and support from the School of Medicine.

Recruitment of four individuals is expected, in an effort to develop a critical mass of investigators studying cell signaling at the institution. We are seeking scientists who merit primary appointment in the Department of Biochemistry. Joint appointments in clinical or other basic sciences departments are expected. Preference will be given to applicants who have an interest that complements one of our clinical science departments. Selected individuals must have potential or demonstrated competence in the use of molecular biological or biophysical approaches to conducting research in cellular signaling and must also be capable of, and committed to making significant contributions to, the teaching and administrative functions of the appointing department(s). Successful applicants will be expected to develop/maintain a funded research program of high quality and to substantially participate in the graduate and professional (medical, dental, and applied health) school teaching programs of the Department of Biochemistry or other appointing department(s). They will also be required to participate in the further development of molecular neuroscience at the College. Applicants should send curriculum vitae, a statement on teaching interests, names of four individuals who may be contacted for reference, and a summary (not exceeding four pages) of potential research project(s) to either: **Fred Jones, Ph.D., RCMI Program Director, and Vice President for Research, or A. Cherrie Epps, Ph.D., Dean, School of Medicine, (both at) Meharry Medical College, 1005 D.B. Todd Boulevard, Nashville, TN 37208.** Applications will be evaluated by the search committee appropriate for the targeted area of cell signaling as well as by the appointing department(s). *Meharry Medical College is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT/ASSOCIATE PROFESSOR VIROLOGY

As part of an ongoing rebuilding program in virology and immunology, the Creighton University School of Medicine's Department of Medical Microbiology and Immunology invites applications for a tenure-track position available in spring or summer 1998. The appointee is expected to conduct a vigorous independent research program and to have an interest and aptitude for teaching graduate students as well as medical, dental, and other allied health profession students. Laboratory space with equipment and start-up supply funding will be available. Applicants should send a curriculum vitae, a brief summary of research plans and teaching interests, and arrange to have at least three letters of recommendation sent to: **Roderick Nairn, Ph.D., Search Committee Chair, Department of Medical Microbiology and Immunology, Creighton University, 2500 California Plaza, Omaha, NE 68178.** Deadline for receipt of applications is January 30, 1998. *Creighton University is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR

Drew University seeks a broadly trained Neuroscientist or Behavioral Biologist (cellular/organismic/population) for a full-time, tenure-track Assistant Professor position to teach undergraduate courses and labs in neurobiology and behavior and to co-advise the psychology major. Ability to teach courses for psychology majors in research design and analyses an asset. This is a new position for fall, 1998; budget approval anticipated. Qualifications include a Ph.D., demonstrated excellence and interest in teaching, and a commitment to research with undergraduates. Additional information may be obtained at website: <http://daniel.drew.edu/~ctimmons/psychobiology/>.

Send letter application, curriculum vitae, three letters of reference, evidence of teaching excellence, and copies of select publications (maximum three) to: **C. Robin Timmons, Psychobiology Search Committee, Department of Psychology, Drew University, Madison, NJ 07940.** Application deadline is January 15, 1998. *Equal Opportunity Employer/Affirmative Action.*

—Theory Division Director—

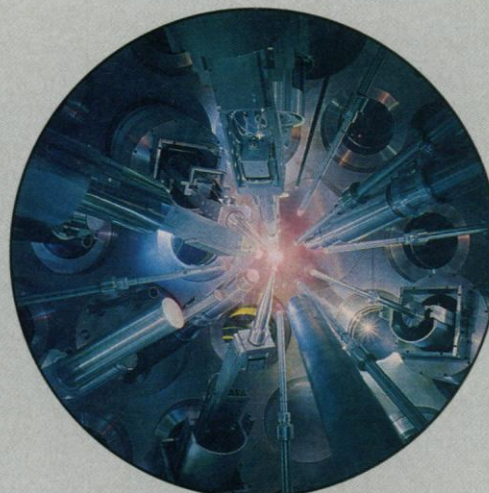
The Laboratory for Laser Energetics (LLE) at the University of Rochester has an immediate opening for the Theory Division Director. LLE is part of the National Inertial Confinement Fusion (ICF) Program and is a world-class research facility centered around the 60-beam, 40-kJ, UV OMEGA laser-fusion experimental system. The principal ICF research carried out at LLE is devoted to investigating the direct-drive approach to ICF. Collaborative research into indirect-drive ICF is also performed at LLE. The responsibilities associated with the position of Theory Division Director include overall guidance of LLE's ICF theoretical program. This includes collaborations with the ICF programs at the Lawrence Livermore National Laboratory and the Los Alamos National Laboratory in the areas of both direct- and indirect-drive ICF research. Additional responsibilities associated with this position include directing the Laboratory's software-development effort and Laboratory-wide computer and network acquisitions and support. The Theory Division Director reports directly to the Director of the Laboratory.

The Theory Division is composed of approximately 30 individuals and includes 17 Ph.D.'s. The division works in close partnership with the Experimental and Engineering Divisions. The LLE Experimental Division is responsible for target physics experiments, target fabrication and development, and research in high-power solid-state glass laser physics issues. The LLE Engineering Division provides extensive mechanical, electronics, optical design, shop, and OMEGA operations support. There are approximately 160 staff members overall at LLE.

Primary funding of LLE is provided through five-year contracts with the ICF Office of the US Department of Energy. The present annual operating budget for the Laboratory is in excess of \$25M. As part of the University of Rochester, LLE draws extensively from its undergraduate and graduate student population for thesis work in related fields such as physics, optics, engineering, chemistry, etc. Presently, there are 60 Ph.D. candidates and 40 undergraduates engaged in research at the Laboratory.

The Theory Division Director position is the research equivalent of a full professor at the University and may include teaching duties depending on personal preference and experience. The ability to obtain a DOE Q clearance is highly desirable.

Interested scientists with extensive scientific and managerial credentials should apply directly to Prof. Robert L. McCrory, Director of LLE. Include a CV, a complete list of publications, salary objective, references, and projected time of availability. The University of Rochester is an equal opportunity employer.



UNIVERSITY OF ROCHESTER
Laboratory for Laser Energetics



250 E. River Road
Rochester, NY 14623

FAX: 716-256-2586

See the LLE Web site
for additional information
(<http://www.lle.rochester.edu>)



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Signal Pharmaceuticals, Inc. is at the forefront of scientific advances in intracellular signaling and gene regulation. Our focus is on the discovery of small molecule drugs that regulate gene expression and production of disease-associated proteins. We have a strong research program focused on the cloning and characterization of novel targets involved in signal transduction and gene expression, in particular MAP kinase cascades.

The Department of Neurobiology has successfully developed proprietary human neural cell lines to facilitate the discovery of new neurological drugs and drug targets. These cell lines are being applied to the study of known and new proteins involved in intracellular signaling and gene regulation. We are seeking highly-motivated candidates with excellent interpersonal skills for the following Scientist positions:

Molecular Biologist

Requires Ph.D. with demonstrated expertise in intracellular signaling, protein kinases and transcriptional gene regulation. Familiarity with receptor binding a plus. Experience with cellular neurobiology preferred. (Code: NBD-S1)

Biochemist

Requires Ph.D. with demonstrated expertise in protein biochemistry and purification. Responsibilities include the isolation and characterization of a novel protein with traditional and innovative approaches. Experience with molecular biology techniques a plus. (Code: NBD-S2)

Please send resume with cover letter to: Signal Pharmaceuticals, Inc., Human Resources Department, (Indicating Code), 5555 Oberlin Drive, Suite 100, San Diego, CA 92121. Visit Our website: www.signalpharm.com/signal EOE

SIGNAL
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DEKALB Genetics Corporation
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DEKALB Genetics Corporation is the fastest growing agricultural seed company in the U.S. We seek a capable Ph.D. molecular geneticist to lead our effort in developing new DNA profiling technology and to oversee our molecular markers lab. As Project Leader, this position is key to our Genomics Application Team. Experience in a high throughput lab setting, demonstrated supervisory and collaborative skills, and familiarity with the technological landscape are essential.

The successful candidate will be located at DEKALB's biotechnology research facility in Mystic, CT, a scenic shoreline community located on Long Island Sound, half-way between New York and Boston. DEKALB offers competitive compensation, an attractive benefits package, and an outstanding work environment.

Send letter of application and résumé, including the names, addresses, and phone numbers of three professional references to: **Dr. Rita Hogan Mumm, DEKALB Genetics Corporation, 101 Tomaras Avenue, Savoy, IL 61874.**
Fax: 217.352.6655.

POSITIONS OPEN

Department of Chemical Engineering at North Carolina State University invites applicants for two tenure-track faculty positions at the **ASSISTANT PROFESSOR** rank. We are particularly interested in candidates with research specialization in polymer science and engineering and biochemical engineering, although those with other specializations will also be considered. Qualifications include a Ph.D. in chemical engineering or a related area. The applicant is expected to establish a strong program that will attract extramural funding as well as have commitment to excellence in teaching at the undergraduate and graduate levels. Applicants should provide a curriculum vitae, a short description of proposed research, and names of at least three references. For the polymer science and engineering position, this information should be sent to: **Professor Benny Freeman, Polymers Search Committee Chair, Department of Chemical Engineering, North Carolina State University, Box 7905, Stinson Road, Raleigh, NC 27695-7905. Telephone: 919-515-2460; FAX: 919-515-3465; e-mail: benhy_freeman@che.ncsu.edu.** For the biochemical engineering position and applicants from other specialties, information should be sent to: **Professor Robert M. Kelly, Search Committee Chair, Department of Chemical Engineering, North Carolina State University, Box 7905, Stinson Road, Raleigh, NC 27695-7905. Telephone: 919-515-6396; FAX: 919-515-3465; e-mail: kelly@che.ncsu.edu.** *North Carolina State University is an Affirmative Action/Equal Opportunity Employer; women and minority applicants are especially encouraged to apply.*

CHAIR, DEPARTMENT OF GENETICS AND DIRECTOR CENTER FOR GENETIC STUDIES

Northwestern University Medical School is recruiting a Chair for a newly established basic science Department of Genetics. This individual will also serve as Director of a new Center for Genetic Studies that will encompass research programs on both campuses of Northwestern University and research activities at affiliated hospitals, including Northwestern Memorial Hospital, Children's Memorial Medical Center, and the Evanston Northwestern Healthcare hospitals. We seek an outstanding scientist or physician with a nationally recognized research program in genetics. The ideal candidate may work in any genetic model, but must have a breadth of vision inclusive of both scientific and clinical programs. This is an exceptional opportunity for someone with the experience and leadership abilities to build a truly interdisciplinary academic enterprise. Must qualify for appointment as Professor with tenure at Northwestern University Medical School. Application deadline April 1, 1998. Send curriculum vitae e-mail: genetics-search@nwu.edu or write to: **Harvey R. Colten, M.D., Dean, Northwestern University Medical School, Morton 4-656, 303 East Chicago Avenue, Chicago, IL 60611-3008.** *Northwestern University is an Affirmative Action/Equal Opportunity Employer. Hiring contingent upon eligibility to work in the United States. Women and minorities are encouraged to apply.*

MOLECULAR GENETICIST DEPARTMENT OF PSYCHIATRY University of California, Irvine

The Department of Psychiatry is seeking to identify qualified individuals for a molecular genetic program at the rank of **ASSISTANT, ASSOCIATE, or FULL PROFESSOR**, tenure-track. Level commensurate with qualifications. The position involves the application of molecular genetic techniques to psychiatric diseases. Excellent laboratory space in a new constructed building dedicated to the neurosciences, start-up funds, and a tenure-track FTE available. The University of California, Irvine College of Medicine is committed to the development of a major program in molecular genetics and a psychiatric component is considered an essential part of this research agenda. Successful candidates must have an M.D. and/or Ph.D. degree with research experience in the field of psychiatric molecular genetics. A proven track record in this field must be evidenced by receipt of peer-reviewed grant funding.

Please send curriculum vitae to: **William E. Bunney, M.D., University of California, Irvine, College of Medicine, Department of Psychiatry, Medical School 1 Room D438, Irvine, CA 92697. E-mail: webunney@uci.edu.**

The University of California is an Equal Opportunity Employer committed to excellence through diversity.

POSITIONS OPEN



FACULTY POSITIONS AVAILABLE STARTING OCTOBER 1998 AMERICAN UNIVERSITY OF BEIRUT Faculty of Arts and Sciences in Beirut, Lebanon

BIOLOGY. Applicants are sought in the field of marine biology with experience in marine ecology. Ph.D. is required.

Positions are at the **ASSISTANT PROFESSOR** level but higher ranks may be considered depending on qualifications. Appointments are generally for an initial period of three years. Visiting positions at all levels may be considered for all vacancies. Sabbatical visitors are welcome. Note that the language of instruction is English.

Interested applicants may send a letter of application and arrange for three letters of reference addressed to: **Dean, Faculty of Arts and Sciences, American University of Beirut, Beirut, Lebanon, or Dean, Faculty of Arts and Sciences, American University of Beirut, c/o New York Office, 850 Third Avenue, 18th Floor, New York, NY 10022-6297.** Electronic submission may be sent to: e-mail: as_dean@aub.edu.lb. All applications and letters of reference should be received by January 15, 1998. *The American University is an Equal Opportunity Employer.*

PATHOGENIC BACTERIOLOGIST, ASSISTANT PROFESSOR. The Department of Biology and Microbiology, University of Wisconsin-La Crosse invites applications for an academic year, tenure-track position at the Assistant Professor level to start August 31, 1998. The University of Wisconsin-La Crosse has a strong allied health emphasis and the department has eight full-time microbiologists, an undergraduate microbiology major, and a M.S. program in clinical microbiology. Applicants must have a strong commitment to undergraduate education. The successful candidate will be expected to teach pathogenic bacteriology (an undergraduate course with some clinical emphasis), mechanisms of microbial pathogenesis (graduate level), and participate in introductory microbiology courses. The successful candidate will be expected to develop an externally funded research program and direct undergraduate and graduate (M.S.) research. A Ph.D. with an emphasis in bacterial virulence mechanisms and experience with modern molecular research and diagnostic techniques required. Experience in a clinical setting preferred. Send curriculum vitae, statements of teaching philosophy and research interest, graduate and undergraduate transcripts, and three letters of recommendation to: **Dr. Thomas O. Clafin, Chair, Department of Biology and Microbiology, University of Wisconsin-La Crosse, La Crosse, WI 54601.** Deadline: materials must be received by January 30, 1998. *The University of Wisconsin-La Crosse is an Affirmative Action/Equal Opportunity Employer. Women, persons of color, and individuals with a disability are encouraged to apply.*

UNIVERSIDAD METROPOLITANA FACULTY POSITIONS

Universidad Metropolitana (UMET) invites applications at the **ASSISTANT PROFESSOR** level in computer science, applied mathematics, inorganic or physical chemistry, physics, and environmental science, biology, or geology. Qualifications include a Ph.D. degree, although Master's-level candidates will be considered in computer science. Duties begin in January or August of 1998 and include a maximum of nine credit hours of undergraduate teaching, and release time for research involving undergraduates. The ability to communicate with students in Spanish is highly desirable. Applicants should submit a complete curriculum vitae, selected reprints, evidence of teaching excellence, statement of teaching and research goals, and should arrange to have three letters of reference sent on their behalf. Materials should be addressed to: **Dr. Fred C. Schaffner, Chairman, Department of Science and Technology, Universidad Metropolitana, P.O. Box 21150, San Juan, PR 00928-1150. Telephone: 787-766-1717 ext. 6457; e-mail: um_fscaffne@suagm3.suagm.edu.** *An Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.*

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION IN BIOLOGICAL MASS SPECTROMETRY

The Waksman Institute and the Department of Chemistry at Rutgers, The State University of New Jersey seeks individuals with interest in methods and applications of mass spectrometry to protein and/or nucleic acid analysis, including protein identification, domain mapping, epitope mapping, and post-translational-modification mapping. Applicants must possess demonstrated ability and commitment to conduct research in biological mass spectrometry, to recruit, train, and work with the director of an associated core facility in biological mass spectrometry, to teach at the undergraduate and graduate levels, and to assume other usual academic responsibilities.

The successful candidate will join a multidisciplinary group of investigators in the study of biomolecular structure, function, and design. Salary and rank will be commensurate with experience, background, and professional qualifications.

Applicants should send a curriculum vitae, letters of recommendation from four professional references, and publication list to:

**Dr. Richard H. Ebright, Chair
Biological Mass Spectrometry Search Committee
The Waksman Institute
Rutgers, The State University of New Jersey
190 Frelinghuysen Road
Piscataway, NJ 08854-0820**

Applications will be accepted until the position is filled. *Rutgers University is an Equal Opportunity/Affirmative Action Employer.*

Two Faculty positions available: **ASSISTANT PROFESSOR**, tenure-track, September 1998. Molecular Biologist/Physiologist with research experience in either area; candidate must be able to teach anatomy and physiology courses for health professionals and teach in the graduate biotechnology program; successful candidate is expected to develop a research program in which undergraduate and graduate students can participate. Ph.D. required; research and teaching experience preferred. **ASSISTANT PROFESSOR**, one year, September 1998. Broadly trained Biologist with a physiological or molecular focus to contribute to B.S. and M.S. programs in biology and biotechnology. Will be expected to teach some combination of general education and service courses for non-majors and major courses including upper-level courses. Ph.D. required; teaching experience preferred.

Please submit curriculum vitae, selected reprints, and the names of three references to: **Dr. J. R. Voos, Department of Biology, William Paterson University, Wayne, NJ 07470.** Please indicate for which position you are applying. Review of applications will commence immediately and continue until the positions are filled.

William Paterson University, New Jersey is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

CELL/DEVELOPMENTAL BIOLOGIST

The Biology Department at the University of Scranton invites applications for a tenure-track **ASSISTANT PROFESSOR** position in cell/developmental biology, starting in August 1998. Applicants must have a Ph.D. and postdoctoral experience is desirable. The successful candidate will teach upper-division laboratory courses in developmental biology and cell biology, and participate in a general biology course for majors. Excellence in teaching and an active research program that will involve undergraduates are expected. The University of Scranton is proud of its mission of liberal arts education in the Catholic and Jesuit tradition and spirit (see the University's website: <http://www.uofs.edu/admin/mission.html>). The successful candidate must be able to support the mission as a member of the University community. Submit curriculum vitae, a statement of teaching philosophy and research interests, and three letters of reference by 15 January 1998 to: **Dr. Kathleen Dwyer, Search Committee Chair, Biology Department, University of Scranton, Scranton, PA 18510-4625.** Direct inquiries to e-mail: kgd301@tiger.uofs.edu. *The University of Scranton is an Affirmative Action/Equal Employment Opportunity Employer/Educator.*

THE UNIVERSITY OF CALIFORNIA AT BERKELEY

Faculty Position in Immunology Department of Molecular and Cell Biology

This is to announce the extension of the application deadline for the Immunology faculty position first advertised in the September 5, 1997 issue of *Science*. The appointee is expected to join the faculty beginning July 1, 1998, or thereafter.

Ph.D. and/or M.D. scientists should have demonstrated excellence, originality, and productivity in research, as well as a strong interest in undergraduate and graduate teaching.

Applications should be directed to the Chair of the committee at the address listed below. Applications should include a curriculum vitae, bibliography, a brief description of research accomplishments, a two-page statement of research objectives and teaching interest, and reprints of the three most significant publications. Arrange to have three letters of reference sent to the address below.

Applications must be received by January 15, 1998. Applicants who applied for the November 15, 1997 deadline are still under active consideration and need not reapply.

Research emphasis in molecular or cellular immunology including, but not limited to, B cell development, inflammation, gene regulation and/or signal transduction in lymphocyte activation and development, and antigen processing. The appointment is to be made at the level of Assistant (tenure-track) Professor or tenured level of Associate or Full Professor.

Department of Molecular and Cell Biology
Chair, Immunology Search
University of California
142 LSA #3200
Berkeley, CA 94720-3200

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

Anesthetic Research Chair IOWA

The University of Iowa Department of Anesthesia invites applications for the Chair of Anesthetic Research. New Leadership in the Department of Anesthesia is committed to the appointment and support of a highly promising individual who will maintain a dynamic and extramurally supported research program and guide the overall investigative effort of the Department of Anesthesia.

The research chair will develop a strong multidisciplinary program of investigation that involves both clinicians and basic scientists, as well as extradepartmental collaborators within the University. Must be eligible for the rank of Assistant Professor or above, on the tenure track. We seek to identify candidates who will complement Departmental and Collegiate strengths in applying modern approaches to study contemporary questions in pain and neurosciences. Effective mentorship of residents, fellows, and junior faculty is essential for success in this position.

Candidates with a Ph.D. and/or M.D. and an excellent record of quality research productivity should submit before February 1, 1998, a curriculum vitae, summary of research accomplishments (including copies of key publications), description of future research plans, and the names of three references to:

Dr. David L. Brown, M.D.

Chair, Search Committee for Chair of Anesthetic Research
Department of Anesthesia, The University of Iowa
6618 John Colloton Pavilion, 200 Hawkins Drive
Iowa City, IA 52242-1079

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

NUTRITIONIST/MEDICAL OFFICER

GS-630/602-14/15

National Institutes of Health ■ Office of Dietary Supplements
Opening Date: November 17, 1997 Closing Date: January 23, 1998

This position is located in the Office of Dietary Supplements (ODS), Office of the Director, NIH. The incumbent participates with the Director, ODS and other senior staff in implementing a strategic plan through identifying key areas for research and initiating, promoting and overseeing appropriate research activities, including organizing workshops and conferences on topics of national interest in dietary supplements. Responsibilities include coordinating with staff in establishing action assignments, tracking progress, establishing priorities, and conducts scientific reviews to identify gaps in scientific knowledge, initiating and coordinating efforts among ICDs and other Federal agencies. The incumbent designs, conducts and reviews research on dietary supplements and works with professional societies, academia, public interest groups and private industry in order to develop various scientific activities, and educational items.

The ideal candidates for this position will be experienced scientists with a demonstrated research background, a Ph.D. in nutrition, food science or closely related field or a M.D. with direct nutrition research experience. The ODS is building a core scientific team with complementary specialized expertise. Secondary expertise is therefore sought in genetics, exercise physiology, and/or cancer/biology. Direct research experience with meta-analysis, epidemiology, or clinical trials will bring balance to the existing group. All applicants are encouraged to address the following Knowledge, Skills and Abilities (KSAs). The full Announcement Number OD-97-1170 can be obtained from NIH.

1. Knowledge of scientific areas related to exploring the role of dietary supplements in improving health care such as genetics, exercise physiology, and/or cancer biology, etc.
2. Knowledge of research design such as clinical trials, epidemiology, survey methodology, or meta-analysis.
3. Knowledge of national and international issues and policies, as well as scientific activities related to research about dietary supplements and their use in health care.
4. Ability to design, oversee, maintain and advise the ODS director on the technical aspects of the ODS relational databases and Internet Homepage through coordination and oversight of computer programming specialists.
5. Ability to plan, develop, implement and evaluate a comprehensive scientific program including the formulation of program objectives, goals, initiatives, budget projections and financial summaries including bringing such programs to completion on time and within budget.
6. Ability to communicate clearly both orally and in writing about scientific issues and to establish and maintain effective collaborative relationships with other scientists.

In addition to meeting the basic qualification requirements, including any selective factors, surplus/displaced employees must meet the mid-level of the crediting plan or established cut off score.

This is a civil service position with a salary commensurate with experience. Please send a curriculum vitae, resume or an Optional Application for Federal Employment, OF-612, to the:

NATIONAL INSTITUTES OF HEALTH, OD/OE, BUILDING 31,
ROOM 1C27, 31 CENTER DRIVE MSC 2264, BETHESDA,
MARYLAND 20892-2264, ATTN: MR. ROBB IRVIN AT 301-
402-5027.

U.S. citizenship is required. APPLICATIONS MUST BE
POSTMARKED BY JANUARY 23, 1998.

NIH is an Equal Opportunity Employer.

POSITIONS OPEN

NEUROBIOLOGY

A search is underway to identify a tenure-track faculty member at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR** with research interests relevant to neural-immune interaction. We are looking for an individual to complement existing research strengths in sensory neurobiology and immunology. Appropriate areas would include central visceral and autonomic systems, neuroendocrinology, cytokine-CNS signaling, or the neural substrates of stress. Opportunities exist for campus-wide interdisciplinary interactions through the neuroscience or psychoneuroimmunology programs. Applicants should have a Ph.D. and/or professional doctorate, appropriate postdoctoral experience, and a strong record of scholarship. The successful candidate will be expected to develop a competitive, independent research program and excel in graduate and professional instruction. Send curriculum vitae, a brief statement of research interests, and the names and addresses of three references to the search committee chair:

Dr. Susan P. Travers
Section of Oral Biology
College of Dentistry
Ohio State University
305 West Twelfth Avenue
Columbus, OH 43210

Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disability are encouraged to apply. Review of applications will begin January 5, 1998, and continue until the position is filled.

The University of Florida Gene Therapy Center is recruiting a faculty member who will occupy a full-time, tenure-track position at the **ASSISTANT** to **FULL PROFESSOR** level in an appropriate basic science or clinical department with an anticipated start date on or after January 31, 1998. The successful candidate will hold an M.D. and/or Ph.D. degree with a minimum of two years of postgraduate research experience in gene therapy, mammalian genetics, mammalian virology, or immunology, and have a strong interest in and commitment to the clinical application of gene therapy, vector development, animal model development, or immunology. This person will be expected to direct an independent research program and to facilitate the development of a production-level gene therapy lab and the human applications of gene therapy. The applicant will also have the opportunity to interact with existing gene therapy and genetic faculty in a variety of applications that include studies of hypertension, retinopathy, spinal cord injury, pulmonary diseases, cardiomyopathy, organ transplantation, neurodegenerative diseases, inflammatory diseases, cancer, and AIDS. Interested applicants are asked to submit a cover letter, curriculum vitae, and names of three references to: **Terence Flotte, M.D., Gene Therapy Center, Department of Molecular Genetics and Microbiology, Box 100266 JHMHC, University of Florida, Gainesville, FL 32610.** The deadline for applications is December 31, 1997.

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

The Department of Health Sciences, Sargent College of Health and Rehabilitation Sciences, Boston University, seeks an established Investigator with a background in physiology or exercise science. A full-time, tenure-track position at the level of **ASSOCIATE** or **FULL PROFESSOR** is being sought for September, 1998. Sargent College has Departments of Health Sciences, Physical and Occupational Therapy, Communication Disorders, and Rehabilitation Counseling with 1,500 students and 52 full-time and over 30 part-time faculty members. Included among many affiliations is a close alliance with the Boston University School of Medicine's Geriatrics Section. Preference will be given to an applicant with established scholarly record in the area of aging, evidence of successful research funding, extensive publications in refereed journals, and an active funded program of research underway. Teaching responsibilities include basic and advanced courses in physiology or exercise physiology, and graduate student advising at the Master's and doctoral level. Salary will be commensurate with qualifications. Applicants should submit a letter of application, curriculum vitae, and three letters of reference to: **Chair, Health Sciences Search, Boston University, 635 Commonwealth Avenue, 4th Floor, Boston, MA 02215.** Review of applications will begin January 15, 1998. Boston University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

TENURE-TRACK POSITION DEPARTMENT OF ANATOMY WRIGHT STATE UNIVERSITY

Applications are invited for a tenure-track position at the **ASSISTANT PROFESSOR** level. This position requires a Ph.D. or M.D. degree with at least three years of postdoctoral experience. The candidate must have research interests and expertise that would complement the present neuroscience program that focuses on cellular and systems neuroscience using modern neuroanatomical techniques. The successful candidate will be expected to develop a vigorous independent research program and should have demonstrated the ability to secure external funding. Collaborative interactions with other faculty are expected. Educational duties will be in one or more areas of the department's major courses in the graduate and medical programs. Send a curriculum vitae, copies of three recent reprints, a statement of research interests, and three letters of recommendation to: **Dr. Robert Fyffe, Chair, Search Committee, Department of Anatomy, Wright State University, 3640 Colonel Glenn Highway, Dayton, OH 45435. FAX: 937-775-3391.** Review of applications will begin December 8, 1997, and continue until the position is filled.

Wright State University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, BIOLOGY MOUNT SAINT MARY'S COLLEGE

Applications are invited for a tenure-track faculty position beginning August 1998 from recent Ph.D.'s dedicated to quality undergraduate education at a Catholic liberal arts college. Applicants must be able to teach genetics and two of the following: microbiology, ecology, or botany. A willingness to participate in introductory biology courses for majors and non-majors is also required. Excellence in teaching and the ability to direct undergraduate research are essential. Please send a cover letter, curriculum vitae, undergraduate and graduate transcripts, three letters of recommendation, and statements of teaching philosophy and research interests to: **Dr. David W. Bushman, Department of Science, Mt. St. Mary's College, Emmitsburg, MD 21727** by January 15, 1998. For additional information: e-mail: bushman@msmary.edu; website: www.msmary.edu. Mount Saint Mary's College does not discriminate on the basis of sex, age, race, national origin, or religious beliefs.

BIOLOGY CHAIRPERSON SEARCH EXTENDED TO FEBRUARY 1, 1998

Applications are still being accepted for Chairperson. The successful candidate must be committed to excellence in undergraduate teaching and research. Preference is for a person whose specialty is physiology. All applications, however, will be considered. Starting date is mid-August, 1998. The rank is **ASSOCIATE PROFESSOR** and will be tenured or tenurable depending on qualifications. Additional compensation is given for summer administration. For additional information, see website: <http://www.bradley.edu/personnel>.

Send a letter of application, curriculum vitae, graduate transcript, three letters of recommendation, and copies of the last four publications to: **Dr. John DePinto, Department of Biology, Bradley University, Peoria, IL 61625.**

RESEARCH ASSOCIATE/ RESEARCH ASSISTANT PROFESSOR

Self-motivated scientists (Ph.D.'s and/or M.D.'s) experienced in the areas of molecular biology, retro-/lentivirology and/or diabetes are invited to apply for challenging positions in a research program focused on the development of gene therapy for diabetes. The laboratory is located in a modern research tower with state-of-the-art equipment to facilities progress. Qualified candidates should submit applications, including updated curricula vitae and bibliographies, plus three letters of recommendation to: **Dr. Savio L. C. Woo, Professor and Director, Institute for Gene Therapy and Molecular Medicine, Box 1496, One Gustave L. Levy Place, New York, NY 10029-6574.** We are an Equal Opportunity Employer fostering diversity in the workplace.

POSITIONS OPEN

ENVIRONMENTAL SCIENCE NATURAL RESOURCES

TENURE-TRACK ASSISTANT PROFESSOR

Dickinson College, a highly selective liberal arts college in south central Pennsylvania, seeks an energetic educator with an active research agenda in natural resource science and international resource management. Co-responsibility for introductory, field-based environmental science course, and upper-division courses in resource management and global issues. Ph.D. in natural science expected with policy and management experience. GIS desirable. Send letter of application by January 16, 1998, detailing teaching philosophy, curriculum vitae, copy of graduate transcript(s), self-developed syllabi, reprints, and three letters of reference to: **Professor Michael Heiman, Chair, Environmental Studies, Dickinson College, P.O. Box 1773, Carlisle, PA 17013-2896.** E-mail: heiman@dickinson.edu; website: www.dickinson.edu. Equal Opportunity Employer/Affirmative Action Employer.

ASSISTANT PROFESSOR OF MICROBIOLOGY. Anticipated tenure-track opening, fall, 1998, at the University of Houston-Downtown. Ph.D. in microbiology with emphasis in immunology required. Candidate must have good communication skills and a demonstrated ability to teach science at the undergraduate level. Position requires teaching entry-level biology/microbiology and upper-level courses in immunology and pathogenic microbiology, advising microbiology majors, and conducting appropriate research projects with undergraduates. University of Houston-Downtown is located in the dynamic central business district of Houston and has affiliation agreements with laboratories in the Texas Medical Center. The 8,000 undergraduate student body has an ethnic mix matching that of the city. Application deadline: February 1, 1998. Send a curriculum vitae and names of three references to: **Chair, Microbiology Search Committee, Department of Natural Sciences, University of Houston-Downtown, One Main Street, 813N, Houston, TX 77002.** University of Houston-Downtown is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, TOXICOLOGY

Ph.D. in toxicology or a closely related discipline is required. Must have postdoctoral experience and publications in peer-reviewed journals. The candidates must have excellent communication skills necessary for undergraduate and graduate teaching, and must be able to establish an independent, externally funded mechanistic toxicology research program that will broaden the research expertise of an emerging toxicology group. This is a tenure-track academic year position beginning in July 1998. Application review will begin in January and continue until the position is filled. Send curriculum vitae, names of three references, copies of selected publications, and a statement of research plan to: **Dr. Z. A. Shaikh, Search Committee Chair, Log #161071, University of Rhode Island, P.O. Box G, Kingston, RI 02881.** The University of Rhode Island is an Affirmative Action/Equal Employment Opportunity Employer.

MOLECULAR/CELL BIOLOGIST. Roosevelt University invites applications for an **ASSISTANT PROFESSOR**, tenure-track opening in August 1998. Require Ph.D., strong commitment to undergraduate teaching, and suitable research program. Background in environmental issues or analytical chemistry desirable. The University has campuses in downtown and suburban Chicago and offers programs in biology, biotechnology, and chemistry (see website: <http://www.roosevelt.edu>). Send letter, curriculum vitae, and names of three references by January 5, 1998, to: **Dr. Vinton Thompson, Director, School of Science and Mathematics, Roosevelt University, 430 South Michigan Avenue, Chicago, IL 60605.** We especially welcome applications from African-American, Latino/a, and Native American candidates.

PLANT BIOLOGIST

ASSISTANT PROFESSOR tenure-track position, beginning fall 1997. Will teach plant biology, preferably microbiology, and general biology, all with laboratory; advise students and direct student research. Ph.D. and commitment to liberal arts education required. Submit curriculum vitae, names of three references, teaching and research goals to: **Matthew J. Temple, Ph.D., Chairman, Department of Biology, Nazareth College, 4245 East Avenue, Rochester, NY 14618-3790** by January 5, 1998. Equal Opportunity/Affirmative Action Employer.



Tenure Track Positions in Cell Biology

The Department of Cell and Developmental Biology invites applications for two tenure track faculty positions. One position is open to outstanding candidates with research interests in any aspect of modern cell biology. For the second position, research interests in the general areas of protein/membrane trafficking, or protein maturation and quality control are preferred, particularly if applied to the biology of epithelial or other polarized cells. Both positions are in the Department of Cell and Developmental Biology. The second position also carries a joint appointment in the Institute for Human Gene Therapy. Appointments at the Assistant Professor level are preferred, but truly exceptional candidates at a more senior level may be considered. Candidates should submit a curriculum vitae, summary of research accomplishments, future research plans, and three letters of reference by January 15 to:



Dr. Charles P. Emerson, Jr.
Chair, Department of Cell and
Developmental Biology
c/o Dynita Washington
237 Anatomy-Chemistry Building
University of Pennsylvania
School of Medicine
Philadelphia, PA 19104-6058

AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER

Fellowship Opportunities

The Postdoctoral Fellows Program at Lawrence Livermore National Laboratory (LLNL) currently has openings for candidates with exceptional talent, credentials, and track records to participate in original and independent research in one or more aspects of science relevant to the mission of LLNL, which includes Physics, Computer Science, Chemistry, Material Science, Engineering, Environmental, Energy, Laser Science, and Biological Science. Successful candidates may participate in experimental or theoretical work and will have access to extensive computing facilities, specialized laboratory facilities, and field equipment. A senior scientific staff will serve as a mentor.

Requires a recent Ph.D. degree in a relevant scientific field within the past five years, demonstrated creativity and exceptional ability and superior knowledge in their area of expertise. Experience in writing reports, scientific papers for publications and proposals and the ability to work independently as well as in a team environment is also required.

LLNL offers a challenging work environment and a competitive salary/benefits package. Applicants should send a resume to: Lawrence Livermore National Laboratory, Attn: Kristine Kansa, L-725, P.O. Box 5510, R-4853, Dept. AISCBS7KK, Livermore, CA 94551. LLNL is an Equal Opportunity Employer.

Visit our website at www.llnl.gov/jobs

University of California

**Lawrence Livermore
National Laboratory**



NATIONAL CANCER INSTITUTE FREDERICK CANCER RESEARCH AND DEVELOPMENT CENTER FREDERICK, MARYLAND

Opening Date: October 14, 1997

Closing date: December 15, 1997

Announcement Number: CA-97-1109

The National Cancer Institute is paving the way for new programs and discoveries at the Frederick Cancer Research and Development Center (NCI-FCRDC). In collaboration with **Dr. John Coffin**, we are creating a world-class center for retrovirology research in a highly collaborative environment dedicated purely to research with very strong support services. Our emphasis will be on basic and translational research related to genetic diversity and drug resistance.

The NCI-FCRDC is recruiting for approximately 6 positions, which will be filled by Senior Investigators (Senior Biomedical Research Service and/or Medical Officer with potential physician special pays) and Tenure-Track investigators. These individuals must be self-directed scientists with a medical and/or doctorate degree who will undertake independent, investigator-initiated studies in the area of biochemistry of virus populations, clinical studies on virus dynamics and population genetics, mechanism of genetic variation, small animal studies, medicinal chemistry, and translation/development with the opportunity for extensive collaboration within and outside of the NCI community.

A fully equipped laboratory will be provided along with technical support. Total annual compensation will be commensurate with experience, accomplishments, and education. A detailed description of research interests should be submitted along with 5 letters of recommendation and curriculum vitae and bibliography to:

Ms. Toni McKeown (1109)
National Cancer Institute

Human Resource Management Consulting Branch
6120 Executive Boulevard
Room 550, EPS
Rockville, MD 20852

The Search Committee will begin reviewing complete applications after November 14, 1997. For consideration, all applications must be postmarked by December 15, 1997. Applications may also be faxed to (301) 402-9333. If you need additional information, please call **Dr. Marjorie Strobel, Search Committee Executive Secretary**, at (301) 846-1302 or (301) 846-5936.

Selection for these positions will be based on merit, without discrimination for non-merit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or non-membership in an employee organization.

THE NATIONAL CANCER INSTITUTE IS AN EQUAL
OPPORTUNITY EMPLOYER

POSITIONS OPEN

RESEARCH FACULTY IN SALMON MANAGEMENT

The School of Fisheries, University of Washington, seeks a **RESEARCH ASSISTANT PROFESSOR** to work on the management of Pacific salmon in western Alaska. A candidate with exceptional qualifications will be considered for appointment at the **ASSOCIATE** or **FULL RESEARCH PROFESSOR** level. The successful candidate will work with an existing team of faculty, students, and staff who study the biology and management of salmon in Bristol Bay, Chignik, and the Alaska Peninsula. The successful applicant will be expected to instruct graduate students, maintain an independent research program through external funding, publish in the peer-reviewed literature, and serve as a key liaison with government and industry. The position involves at least two months of field work each summer in Alaska. The applicant will be responsible for research and assessment regarding salmon management, particularly questions of escapement goals and run forecasting, and the applicant will work closely with commercial salmon processors and the Alaska Department of Fish and Game. This program has been externally funded for 50 years and we expect the successful applicant to bring in research funds to augment the existing program. The applicant will be expected to raise research funds to support students and research activities. An earned Ph.D. is required. Candidates should submit a letter of interest, curriculum vitae, and names of three references to:

Dr. Kenneth K. Chew, Director
School of Fisheries, Box 357980
University of Washington
Seattle, WA 98195-7980

Application deadline is 31 January 1998.

The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF BIOLOGY AT THE UNIVERSITY OF TEXAS-PAN AMERICAN

The Department of Biology invites applications for an entry-level, tenure-track Assistant Professor position starting September 1, 1998. The successful applicant must have an earned Ph.D. in any biological discipline from an accredited institution of higher education and demonstrated expertise in scanning and transmission electron microscopy. The person hired will be expected to assist in teaching general biology courses, develop new courses in electron microscopy and in the area of biological expertise. In addition, the person will be expected to develop a research program involving electron microscopy, and be responsible for the routine operation, maintenance, and administration of the electron microscopy equipment. Strong commitments to teaching and research involving both undergraduate and graduate students are expected. Postdoctoral research experience is highly desirable. Applicants should submit a curriculum vitae, statement of teaching and research goals, representative publications, and arrange for three letters of reference to be sent to: **Dr. Hudson DeYoe, Search Committee Chair, Department of Biology, University of Texas-Pan American, 1201 West University Drive, Edinburg, TX 78539-2999. Telephone: 956-381-3538; FAX: 956-381-3657; e-mail: hdeyoe@panam.edu.** Application deadline: January 15, 1998. *Women and minorities are encouraged to apply. The University of Texas-Pan American is an Equal Opportunity/Affirmative Action Employer. (F97/98-34)*

Coe College, a four-year liberal arts college with six faculty members in its biology department, seeks a **BACTERIOLOGIST/MICROBIOLOGIST** for a full-time tenure-track position at the **ASSISTANT PROFESSOR** level. Teaching responsibilities include microbiology, bacteriology, cell physiology, (eukaryotic emphasis), and the cellular/molecular semester of general biology. The successful candidate must have a Ph.D. and demonstrate experience, interest, and ability in teaching undergraduates. Research interests which could be adapted to include undergraduates doing honors and independent studies would be helpful. Please send curriculum vitae, statement of teaching interests, and three letters of recommendation to: **Dr. Laura Skandera-Trombley, Dean of the Faculty, Coe College, Cedar Rapids, IA 52402.** Deadline for applications: January 15, 1998. *Affirmative Action/Equal Opportunity Institution.*

POSITIONS OPEN

IMMUNOLOGIST DEPARTMENT OF MEDICINE University of California, San Francisco (UCSF)

The Department of Medicine at UCSF is seeking qualified applicants for a faculty position at the **ASSISTANT PROFESSOR** level who will primarily be engaged in immunologic research. Qualified applicants should hold an M.D., Ph.D., or M.D.-Ph.D. Preference will be given to applicants with research interests and experience in the fields of rheumatology, allergy, and transplantation. Interested applicants should send a curriculum vitae, summary of research experience/future interests, and three (3) letters of recommendation to:

Arthur Weiss, M.D., Ph.D.
Chair, Search Committee
Department of Medicine
Box 0724

University of California, San Francisco
533 Parnassus Avenue
San Francisco, CA 94143-0724

To receive full consideration, applications should be received by February 5, 1998. *UCSF is an Equal Opportunity/Affirmative Action Employer. The University undertakes Affirmative Action to assure Equal Employment Opportunity for underutilized minorities and women, for persons with disability, and for Vietnam-era veterans and special disabled veterans.*

The University of Illinois at Chicago (UIC), Laboratory of Integrative Neuroscience invites applications for a tenure-track faculty appointment at the **ASSISTANT PROFESSOR** level. The Laboratory is a unit of the UIC College of Liberal Arts and Sciences and involves 14 neuroscience faculty from three departments (Biological Sciences, Psychology, and Philosophy). For more information on the Laboratory and its faculty, please see our website: <http://www.uic.edu/depts/psch/biopsych.html>. This position is expected to be in the Department of Psychology beginning fall 1998. Applicants must have a Ph.D. and an active research program in behavioral or integrative neuroscience employing animal models, with an emphasis on central mechanisms. Submit letter of application, curriculum vitae, and three letters of reference to: **Dr. Michael W. Levine, Chair, Neuroscience Search Committee, c/o Department of Psychology (M/C 285), The University of Illinois at Chicago, 1007 West Harrison Street, Chicago, IL 60607-7137.** To ensure full consideration, applications should be received by February 15, 1998. *UIC is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF BIOLOGY

The Hood College Department of Biology invites applications for a tenure-track position at the Assistant Professor level to begin fall 1998. Applicants should be able to teach lecture and laboratory courses in introductory biology for majors and non-majors, microbiology, cell biology, and molecular biology. Teaching responsibilities will include both undergraduate and graduate courses. Preference will be given to those who are applying molecular biological techniques to their area of research. Applicants are required to have a Ph.D. in the biological sciences, giving evidence of a strong commitment to teaching and of scholarly achievement or promise. Teaching and postdoctoral experience are desirable. Applicants should send a curriculum vitae, a statement of research and teaching interests, and the names of three referees willing to supply letters of support to: **Dr. Craig Laufer, Chair, Department of Biology, Hood College, Frederick, MD 21701-8575.** Review of applications will begin January 5, 1998. *Equal Opportunity Employer.*

BIOLOGY. Ouachita Baptist University, a private, liberal arts university seeks to fill two **TENURE-TRACK** positions beginning August, 1998. Candidates must possess Ph.D., a strong commitment to teaching at the undergraduate level, and be willing to develop a research program to include undergraduates. The successful candidate will also be asked to serve on committees and advise undergraduates. The first position will teach human anatomy and physiology, histology, and life science (non-majors). The second position, subject to budget approval, will teach botany, cell biology, genetics, and life science. Applicants should send curriculum vitae, three letters of reference, and a letter describing teaching philosophy and the integration of faith and learning to: **Tim Knight, Department of Biology, OBU Box 3792, Ouachita Baptist University, Arkadelphia, AR 71998-0001.** E-mail: knighnt@alpha.obu.edu. Deadline for receipt of applications will be January 15; review of applicants will begin immediately.

POSITIONS OPEN

ASSISTANT PROFESSOR EXERCISE PHYSIOLOGY CARDIOVASCULAR ADAPTATIONS

The Department of Biological Sciences, Ohio University, Athens, Ohio invites applications for a full-time, tenure-track exercise physiology position at the Assistant Professor level beginning fall 1998.

Candidates with a specific interest in cardiovascular and/or muscle metabolic responses to exercise are invited to apply. An earned doctorate in exercise physiology or related field, University and/or postdoctoral experience, and evidence of scholarly research activity are required. Candidates are expected to develop an independent research program and those with molecular techniques are encouraged to apply. Current strengths of the exercise focus group include muscle biology and exercise endocrinology. Candidates are also expected to teach undergraduate courses in human physiology and physiology of exercise, develop or participate in a graduate course in exercise physiology, and direct student research. Salary will be commensurate with experience. Review of applications will begin on February 1, 1998, but applications may be tendered until the position is filled. Please submit letter of application, curriculum vitae, statement of research and teaching interests, and three letters of recommendation to: **Ms. Jean Witkowski, Search Committee, Exercise Physiology—Cardiovascular Adaptations, Department of Biological Sciences, Ohio University, 107A Irvine Hall, Athens, OH 45701-2979.**

Ohio University is an Affirmative Action/Equal Opportunity Employer.

BIOLOGY, ASSISTANT PROFESSOR. The Department of Biology at Shippensburg University invites applications for a tenure-track position starting August 1998. The successful candidate will be required to have completed a Ph.D. and have two years of teaching experience. Primary teaching responsibilities will include cell biology and a proposed molecular biology course on a rotational basis, as well as introductory biology. A strong commitment to undergraduate teaching is essential. A demonstration of teaching effectiveness will be required as part of the interview. Scholarly activity will be required in the area of the candidate's specialty. Applicants must send curriculum vitae, copies of transcripts (both graduate and undergraduate), a statement of teaching philosophy and research interests, and three letters of reference to: **Dr. William Patrie, Chair, Molecular Biology Search Committee, Department of Biology, Shippensburg University, 1871 Old Main Drive, Shippensburg, PA 17257-2299.** Receipt deadline for application materials is January 15, 1998. *Shippensburg University is committed to Equal Employment Opportunity. Women, persons of color, veterans, and the disabled are encouraged to apply.*

ASSISTANT PROFESSOR. Biology, FT, nine months, tenure-track, College of Notre Dame, start August 1998. College of Notre Dame is a comprehensive, private, independent, coeducational college located 20 miles south of San Francisco. Courses to be taught may include general biology, microbiology, vertebrate anatomy and physiology, immunology, environmental issues. Primary commitment to teaching. Active participation in research with undergraduates. Ph.D. in biology, teaching experience required. Experience and/or course work in chemistry/biochemistry/molecular biology preferred. Experience with collaborative learning and technology in teaching desirable. Salary \$36,000 to \$43,000 dependent on eligibility. Letter and résumé by January 9, 1998, to: **Human Resources, #1501, College of Notre Dame, 1500 Ralston Avenue, Belmont, CA 94002.** *Affirmative Action/Equal Opportunity Employer/ADA.*

ZOOLOGIST: INSTRUCTOR/ASSISTANT PROFESSOR. Tenure-track. The Biology Department of Drury College is seeking a Zoologist to teach undergraduate courses in zoology, cell biology, human physiology, anatomy, and nutrition. Applicants must have a Ph.D., willing to participate in the teaching of interdisciplinary science courses for non-majors, and establish an undergraduate research program. Applicants should submit a curriculum vitae, statement of teaching philosophy, and the names of at least three references. Review of applications will begin January 13, 1998. Send applications to: **Dr. Barbara Wing, Drury College, 900 North Benton Avenue, Springfield, MO 65802.** FAX: 417-873-7283; e-mail: bwing@lib.drury.edu. *Women and minorities are encouraged to apply.*

DIRECTOR, FOGARTY INTERNATIONAL CENTER AND ASSOCIATE DIRECTOR FOR INTERNATIONAL RESEARCH, NIH

The John E. Fogarty International Center for Advanced Study in the Health Sciences (FIC), National Institutes of Health (NIH), located in Bethesda, MD, is recruiting for a person to serve as both the Director, Fogarty International Center and Associate Director for International Research, NIH.

The ideal candidate must possess at least a Bachelor's degree with major study in the biomedical or health sciences with a Ph.D. or an M.D. degree in a medical discipline appropriate to the NIH mission. In addition applicants must possess professional experience in the international medical research or international public health field at the senior level (GS-15 or equivalent) that meets the following mandatory knowledge, skills, and abilities as listed below.

1. Ability to provide visionary leadership in international medical research and research administration, as demonstrated through having achieved a leadership position and/or recognized stature in the medical/public research community;
2. Medical or scientific research expertise in illnesses that afflict the population of the world as demonstrated by a broad publication record in peer-reviewed journals; and,
3. Skill in representing the organization through interacting and negotiating with Federal, private sector and multinational leaders to develop international collaborative research opportunities.

This is a civil service position in the Senior Executive Service (SES) with an annual salary ranging from ES-1 to ES-6 (currently \$103,897 to \$123,100). A recruitment bonus of up to 25% of base pay may be paid to a non-Federal applicant or a relocation bonus of up to 25% of base pay may be paid to a Federal applicant selected for this position. Physicians may be eligible for a Physicians Comparability Allowance of up to \$20,000.

Applicants are required to submit a bibliography and curriculum vitae, resume or any other written format which addresses the requirements indicated in this announcement. *All applications are to be postmarked no later than close of business December 19, 1997.*

Ms. Karen Webb, National Institutes of Health, NHLBI Personnel Office, Building 31, Room 5A28, 31 Center Drive, MSC 2484, Bethesda, MD 20892-2484.

National Institutes of Health is an Equal Opportunity Employer

DEAN College of Veterinary Medicine Kansas State University

Applications and nominations are invited for the position of Dean of the College of Veterinary Medicine at Kansas State University. An earned Doctor of Veterinary Medicine or equivalent degree is required. Graduate degrees, specialty certification, and/or administrative experience with major responsibility in a university veterinary program are preferred. Successful applicants must be able to demonstrate evidence of visionary administrative leadership, excellent communication and managerial skills, an appreciation for the unique teaching, research, and service components of a college of veterinary medicine, a commitment to scholarly excellence, and an appreciation of the importance of promoting and maintaining close relationships with alumni.

The Dean is the leader for all aspects of professional and postgraduate education, research, and clinical and diagnostic service functions of the faculty. The Dean reports directly to the Provost, has line-item budgetary responsibility for the college, and manages the Kansas Agricultural Experiment Station resources assigned to the college. The successful applicant will be appointed to a tenured professional position in the appropriate department.

All applications and/or nominations should be sent to **Dr. Michael W. Dryden, Chair, Search Committee, Attn. John Lankford, Office of the Provost, 108 Anderson Hall, Kansas State University, Manhattan, KS 66506-0113.** Applications should include a detailed letter of intent, curriculum vitae, and names and addresses of five principle references. Screening of applicants will begin January 15, 1998, and continue until an appropriate candidate has been selected.

Kansas State University is an Equal Opportunity/Affirmative Action Employer.

Center for Biotechnology A New York State Center for Advanced Technology

Associate Director, Scientific Affairs

The Center seeks an Associate Director, Scientific Affairs to identify early-stage technologies in the academic

environment for commercial development. He/she will manage the Center's portfolio of technologies to enhance their commercial value and will facilitate license agreements, joint ventures, or other commercial developments that maximize return on investment. They will serve as liaison between academic scientists and the biotechnology, pharmaceutical, and medical device industries to facilitate new collaborations and enhance technology development.

Qualified candidate will have a Ph.D. in life sciences, chemistry, or a related biomedical field have broad-based industry knowledge of biomedical technology development. Five years post graduate experience in technology development or scientific affairs with the biotechnology, pharmaceutical or medical device industries required. Exceptional interpersonal, organizational and written skills required. Experience with technology transfer and intellectual property issues desirable.



Associate Director, Business Development

The Center seeks a business development professional to establish for-profit entities to commercialize biomedical technologies resulting from academic research. This individual will secure follow-on funding for early-stage ventures resulting from Center investments, and for maximizing the return on these investments. The Associate Director will serve as liaison between the Center for Biotechnology, potential industry partners in the biotechnology, pharmaceutical, and medical device industries, and the financial community.

Qualified candidate will have knowledge of all aspects of establishing a successful biomedical company and managing early-stage development. Candidate should possess a Bachelor's degree or equivalent and five years of related experience. MBA, some education in life science, chemistry or biomedical engineering preferred. Experience in raising capital and developing strategic partnerships essential. Knowledge of FDA regulatory policies useful. Salary commensurate with experience. Please send resume with three references to: Director, Center for Biotechnology, 130 Life Sciences Building, SUNY Stony Brook, Stony Brook, NY 11794-5208.

An AA/EO employer. Women, people of color, disabled persons and/or special disabled or Vietnam Veterans are especially welcome.

POSITIONS OPEN

ASSISTANT PROFESSOR DEVELOPMENTAL/EVOLUTIONARY BIOLOGIST

St. Lawrence University invites applications and nominations for the position of Assistant Professor of Biology, a tenure-track position beginning August 1998. We are seeking a Developmental/Evolutionary Biologist with a demonstrated competence to teach modern laboratory courses in developmental biology, evolution, and genetics. The successful candidate will be expected to develop a fourth course in an area of expertise. The typical teaching load will be two courses (with lab) per semester. A Ph.D. is required along with a commitment to teaching at an undergraduate liberal arts college. The candidate will be expected to develop a strong research program that would involve undergraduate students. A demonstrated knowledge in the use of computers and instructional technology will be favored. As part of the general education curriculum at St. Lawrence, all first-year students enroll in a team-taught course that seeks to develop skills in critical thinking, writing, and research. The successful candidate will have the opportunity to participate in this program. Candidates should submit a letter of application, a curriculum vitae, a statement of teaching philosophy and interest, a statement of current and future research interests, and have three letters of recommendation forwarded to: **Dr. T. Budd, Biology Department, St. Lawrence University, Romoda Drive, Canton, NY 13617.** The search committee will begin reviewing applications on December 15, 1997.

St. Lawrence University, chartered in 1856, is the oldest continuously coeducational institution of higher learning in New York State. An independent, private university firmly committed to undergraduate liberal arts education and cross-cultural opportunities, St. Lawrence University offers a unique learning environment. The University's 1,900 students come from most U.S. states and more than two dozen other countries. Canton, the St. Lawrence River Valley, the nearby Adirondack State Park, and the cities of Ottawa and Montreal provide the University community many social, cultural, and outdoor recreation activities. St. Lawrence University's homepage is [website: http://www.stlawu.edu](http://www.stlawu.edu) and the biology homepage is [website: http://www.it.stlawu.edu/~biology](http://www.it.stlawu.edu/~biology).

St. Lawrence University is an Affirmative Action/Equal Employment Opportunity Employer. Women, minorities, and persons with disability are encouraged to apply.

BOTANIST/PLANT PHYSIOLOGIST. The Department of Biology invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level with expertise in vascular plant physiology to begin August 1998. The appointee is expected to establish an extramurally funded research program that may involve undergraduate and Master's students. Candidates will teach general botany, plant physiology, and plant anatomy. Preference will be given to candidates with research areas that interface the physiological/structural aspects of plant biology. Applicants must have a Ph.D. (postdoctoral experience preferred) and should submit a curriculum vitae, names of three references, and statements of research and teaching interests to: **Dr. James Smith, Search Committee Chair, Biology Department, Boise State University, 1910 University Drive, Boise, ID 83725** by January 9, 1998. Candidates are encouraged to visit the departmental [website: http://www.idbsu.edu/biology/biohome.htm](http://www.idbsu.edu/biology/biohome.htm). Boise State University is an Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR IMMUNOLOGY

The newly constituted Immunobiology Unit of the Department of Medicine at Boston University Medical Center invites applications for a faculty position in immunology. Candidates with an M.D. or Ph.D. degree, working in any area of immunology, who have a strong research record and a commitment to developing an independent, innovative program will be considered. Interested individuals should submit a curriculum vitae, outline of future research plans, and the names of three references to: **Thomas L. Rothstein, M.D., Ph.D., Room E-556, Boston Medical Center, 88 East Newton Street, Boston, MA 02118.**

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION ORNITHOLOGIST

Truman State University invites applicants for a tenure-track position, pending budgetary approval, at the **ASSISTANT PROFESSOR** level, starting August 1998. Teaching and research are mutually supportive activities at Truman; candidates should be strongly committed both to teaching and to developing an active research program involving undergraduates and M.S. students. Research laboratory and start-up funds will be provided. The successful candidate will teach ornithology and another upper-level course in the candidate's area of expertise, as well as participate in introductory biology courses. We are especially interested in candidates with interests in behavior or systematics and whose research includes field work.

Truman has been ranked in *Money* magazine's top ten best college buys for the past five years. Truman is Missouri's only statewide, highly selective, public undergraduate liberal arts and sciences university. We are nationally recognized for our innovative assessment program and commitment to a broad-based liberal arts and sciences education. Students benefit from a university-wide sixteen-to-one student/faculty ratio and opportunities to work closely with faculty conducting research. For more information about the University and the Biology program, please visit our [website: http://www.truman.edu/academics/sc/biopause.html](http://www.truman.edu/academics/sc/biopause.html).

Candidates must possess a Ph.D., or have a scheduled completion date, by August 1998. Complete applications include a curriculum vitae, statements of teaching philosophy and research goals, all undergraduate and graduate transcripts, and three recent letters of reference. All application materials should be sent directly to: **Dr. Thomas L. Bultman, Division of Science, Truman State University, Kirksville, MO 63501. Telephone: 816-785-7252.** We will start reviewing completed applications on 9 January 1997. Truman is an Affirmative Action/Equal Opportunity Employment Institution committed to cultural diversity and compliance with the Americans with Disabilities Act.

ASSISTANT PROFESSOR, CELL BIOLOGY

Applications are invited for a nine-month, tenure-track faculty position for a broadly trained Cell Biologist in the Department of Biological Sciences at Florida International University. We particularly are interested in candidates whose research complements our faculty's existing strength in tropical biology. The successful applicant will be expected to establish an independent, extramurally funded research program, to teach undergraduate/graduate courses in cell biology, and to participate in the lower-division general biology program. A Ph.D. in cell biology is required; postdoctoral training is preferred. Interested candidates may examine our [website: http://www.fiu.edu/orgs/biology/cellbio.html](http://www.fiu.edu/orgs/biology/cellbio.html) for information about our department. Applicants should submit their curriculum vitae with a summary of their research and teaching interests, and three letters of reference by January 22, 1998, to: **Dr. David Kuhn, Chair, Cell Biology Search, Department of Biological Sciences, Florida International University, University Park, Miami, FL 33199.**

Florida International University is an Equal Access/Affirmative Action/Equal Opportunity Employer and a member of the State University System of Florida.

RESEARCH ASSOCIATE. A non-tenure-track position to maintain and operate sequential ICP instrumentation and to assist the Director in nutritional, environmental, and research analyses. Familiarity with GLP regulations and strong oral and written communications considered valuable assets. M.S. in analytical chemistry, chemistry, biochemistry, or equivalent is a minimum, with analytical experiences to include ICP, GLC, and HPLC. Salary range is \$25,000 to \$30,000 annually. Interested applicants please send a cover letter, résumé, and three letters of reference to: **Dr. Thomas Mawhinney, Director, Experiment Station Chemical Laboratories, College of Agriculture, Food, and Natural Resources, Room 4, Agriculture Building, University of Missouri, Columbia, MO 65211.** The search will continue until position is filled. Females and minorities are encouraged to apply. The University of Missouri is an Equal Employment Opportunity/Affirmative Action Employer.

POSITIONS OPEN

INTEGRATED CROP MANAGEMENT (FRUIT) MICHIGAN STATE UNIVERSITY

The Department of Horticulture is recruiting for a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** in integrated crop management (ICM) for perennial fruit crops. This involves: (1) research on ICM for tree fruits, and collaborating with horticulturists, entomologists, and pathologists in the development of ICM projects; (2) providing leadership in working with faculty and extension agents and in coordinating and integrating research and extension programs related to fruit production, quality, and pest control, and (3) conducting research and extension projects related to the orchard environment, e.g., nutrient, water, and orchard floor management, weed control and ecology, pest and disease management. This also includes administrative and budget management of staff and facilities and supervision, coordination, and implementation of research and extension projects at Michigan State University's Clarksville Horticultural Experiment Station, a research facility located 45 minutes from campus. Office and lab space will also be provided on campus.

A Ph.D. in horticulture or related field is required, along with a record of solid productivity in field research, and experience in administering, coordinating, or managing team approaches to integrated research and extension projects. Developing an extramurally funded program with a national and international reputation in ICM for fruit crops is expected.

Applications will be accepted through March 1, 1998, or until a suitable applicant is identified. Send curriculum vitae, graduate transcripts, description of research/extension interests, and names of three references (with addresses and telephone numbers) to: **Dr. Stan Howell, ICM Search Chair, Horticulture, 288 PSSB, Michigan State University, East Lansing, MI 48824-1325. Telephone: 517-355-1783; FAX: 517-355-0249; e-mail: howell@pilot.msu.edu.** Michigan State University is an Affirmative Action/Equal Employment Opportunity Institution.

RESEARCH FELLOWSHIP in nephrology. Two research training positions, funded by a NIH National Research Service Award, are available July 1, 1998, in the Division of Nephrology at Mount Sinai School of Medicine New York, New York for individuals seeking an academic career in nephrology. Applicants must have M.D., Ph.D., or M.D.-Ph.D. degrees, completed residency training, and be U.S. citizens or holders of permanent resident cards. Training will be under the direction of faculty from Nephrology and multiple other Departments in the School of Medicine. Training will be available in five major areas: molecular genetics and development; immunology, virology, and gene therapy; cell cycle and signal transduction; adhesion molecules and matrix; and molecular basis of transport. Further information about the Division of Nephrology, the training grant faculty, and research training opportunities may be found at our [website: http://www.mssm.edu/medicine/nephrology/home-page.html](http://www.mssm.edu/medicine/nephrology/home-page.html). For applications, Telephone: 212-241-8004.

POSTDOCTORAL POSITIONS (three years) are available immediately on an NIH grant in the following laboratories: **Dr. Douglas Darling:** regulation of eukaryotic gene transcription by hormone receptors, and human molecular genetics; or **Dr. David Cohn:** biology and biochemistry of calcium-regulating hormones. Individuals must have Ph.D., M.D., or D.M.D., and U.S. citizenship or permanent residency. Send curriculum vitae and names of references to either: **Dr. Darling or Dr. Cohn, University of Louisville, Dental School Room 301, 501 South Preston Street, Louisville, KY 40292. FAX: 502-852-4702.**

POSTDOCTORAL FELLOW/ RESEARCH FELLOW

Available January 1998 for recent graduates with a Ph.D. in molecular biology or cell biology interested in the importance of developmental biology for cancer research. Send curriculum vitae and names of three references to: **Mark A. Israel, M.D., PIBS Graduate Program in Developmental Biology and Department of Neurological Surgery, University of California, San Francisco (UCSF), 513 Parnassus Avenue, San Francisco, CA 94143-0520. E-mail: israel@cgl.ucsf.edu.**

Principal Scientists

Veterinary Vaccine Development

Schering-Plough Animal Health is a leading developer, manufacturer and marketer of a broad range of veterinary biological and pharmaceutical products throughout the world. With the recent acquisition of a large global veterinary company, we are being transformed from a successful niche player to a position of worldwide leadership, forming the world's 6th largest animal health company with annual sales of approximately \$650 million.

Working at our Elkhorn, Nebraska location you will assume major responsibilities for conducting R&D activities directed at the development of new or improved veterinary vaccines, including developing and managing studies necessary for vaccine licensing, publication and presentation of results, and support of manufacturing and quality testing functions. Positions are open with emphasis in virology, bacteriology, and immunology. PhD in Microbiology, Virology, or Immunology is preferred. Candidates with a DVM or MS and vaccine development experience will also be considered. Background must include experience supervising a scientific staff and managing laboratory projects. Management of vaccine development projects, along with knowledge of molecular biology and GLPs are highly desirable.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, please forward a resume with salary requirements to: **Human Resources-EL, Schering-Plough Animal Health, P.O. Box 3113, Omaha, NE 68103.** We are an equal opportunity employer. We regret we are unable to respond to each resume.



**Schering-Plough
Animal Health**

Analytical Development Chemist

A multinational manufacturer and marketer of specialty chemicals in the Louisville area is seeking an individual with a background in analytical chemistry to serve as Analytical Development Chemist in Louisville, KY. Principal duties are to conduct method development and method validation for routine and non-routine tests included in the Quality Control (QC) system; provide analytical support in connection with product development, process troubleshooting and environmental-related issues; carry out instrument troubleshooting, and instrument performance evaluation in the Quality Assurance (QA) Lab and production unit; determine the physical and chemical properties, composition, and structure of polymers, resins, monomers, plastics, and performance chemicals employing chromatography, spectroscopy, and other state-of-the-art analytical methods and techniques including Fourier Transform Infrared Spectroscopy with Attenuated Total Reflectance (FTIR-ATR), X-ray Spectroscopy, Thermogravimetric Analysis (TGA), and Electroanalysis; develop test methods for analyzing production samples, raw materials, and special request samples; develop formulas, processes, and methods for the resolution of production process problems and customer complaints and for special tests; work with the Research and Application chemists in providing technical support on new product introduction and on non-routine testing and prepare standards and specifications for products and production processes.

Position requirements are a Ph.D. degree in Analytical Chemistry and two (2) years experience in the job offered, Analytical Development Chemist, or in the related occupation, Process Chemist, which shall include experience in (i) analytical chemical research involving polymeric compounds and their applications and (ii) chemical analysis, method development, material characterization, and environmental pollutant detection using accepted analytical chemistry methods and separation techniques including Fourier Transform Infrared Spectroscopy with Attenuated Total Reflectance (FTIR-ATR), X-ray Spectroscopy, Thermogravimetric Analysis (TGA), and Electroanalysis. Must have also completed one graduate-level course in each of the following: electroanalytical chemistry, applied chemical spectroscopy, spectroscopic methods of analytical chemistry, and advanced physical chemistry. 7:45am-4:15pm. 40 hrs. p.w./\$58,630 p.a. *Equal Opportunity Employer. Only persons with authorization to work permanently in the U.S. need to apply.* Applicants must refer to **Job Order #KY0368101**. Submit résumés to: **Jane Hosley, JO#KY0368101, Dept. for Employment Services, 275 East Main St., 2W, Frankfort, KY 40621.**

The Science of Agricultural Genetics

MOLECULAR GENETICS RESEARCH MANAGER, (Job #AT-802) Genomics and Heterosis Research Group

We are seeking an exceptional individual with an enthusiasm for applying and developing innovative new molecular approaches, involving transformation or targeted mutagenesis techniques in elite germplasm, to manipulate and confirm the function of genes associated with heterosis in maize. This individual should have a Ph. D. in Genetics, Molecular Biology, Plant Physiology, Agronomy, Crop Science or related field and at least 5 years of relevant lab experience in molecular genetic or physiological analysis of agronomically important traits in plants, preferably maize. A solid background in plant quantitative or qualitative genetics, with experience using basic molecular genetic techniques, e.g. cloning, sequencing, genotyping at the DNA level, and RNA expression analysis, will be essential. Experience or familiarity with plant transformation technology or handling transgenic plants in the field would be highly desirable, as would be a background knowledge of yield physiology or genotype x environment interactions. This person will also help plan and manage field experiments in collaboration with plant breeding personnel, which will include developing nursery entry lists, harvesting seed or tissue for genetic/physiological analysis, and making or recommending controlled pollinations. Supervisory experience and leadership ability will be very important, as will a willingness to work as part of a team of other scientists involved in candidate gene identification and characterization.

RESEARCH ASSOCIATE, (Job #AT-801) Genomics and Heterosis Research Group

Primary responsibilities of this position will involve harvesting large numbers of tissue samples from field-grown maize plants, RNA isolation, nucleic acid hybridization experiments (using membrane- and microarray-based systems), and extensive computer-based analysis of RNA profiling data. We are seeking a highly motivated BS or MS level candidate with at least one year of relevant lab work. Experience in basic molecular biology techniques (PCR, cloning, sequencing, etc.), especially RNA isolation and analysis, will be essential; experience with plants would be preferred. Ability to work independently, analyze large datasets, and handle a large number of samples in an organized manner will also be essential. Candidates for each position will also be expected to keep clear and accurate records in a notebook, contribute to patent applications or publications, and prepare written and oral summaries of their work. Familiarity with and eagerness to use spreadsheets and commercially available or customized software tools for bioinformatics, database management and graphical/statistical analysis will also be necessary.

Pioneer Hi-Bred International, Inc. offers an opportunity to interact among hundreds of scientists with diverse backgrounds. We offer competitive salaries and excellent, comprehensive benefits. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages. For confidential consideration send 3 copies of your cover letter and current resume, indicating job number, by December 19, 1997 to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (job #AT-801 or AT-802), P.O. Box 1004, Johnston, IA 50131-1004.

Pioneer Hi-Bred International, Inc., is the world leader in agricultural genetics. Founded in 1926, we are a publicly held company that invests more than \$160 million in research and product development. Pioneer® brand products are grown in almost every crop-producing continent in the world. At our headquarters in Des Moines, Iowa, we're adding to our Research team.



**PIONEER HI-BRED
INTERNATIONAL, INC.**
*An Equal Opportunity
Employer*



ASSISTANT/ASSOCIATE PROFESSOR ANATOMY AND CELL BIOLOGY

The Department of Anatomy and Cell Biology, State University of New York, Health Science Center, Syracuse, invites applications for a tenure-track position at the level of Assistant or Associate Professor. Applicants should have a Ph.D., M.D., or equivalent degree and a minimum of two years of postdoctoral research experience. The department is seeking an individual with a strong record of scientific achievement using cellular and molecular approaches to answer questions in neurobiology, cellular biology or development to add to existing institutional strengths in these areas. Teaching opportunities will exist in medical and/or graduate courses. The position provides an extremely competitive salary and generous set-up fund. Interested individuals should send a copy of their curriculum vitae, a statement of their research interests, recent reprints, and three letters of reference by February 1, 1998, to: **Dr. James E. Schwob, Professor and Vice-Chair, Department of Anatomy and Cell Biology, State University of New York, Health Science Center at Syracuse, 750 East Adams Street, Syracuse, NY 13210. The State University of New York, Syracuse, is an AA/EEO/ADA employer, committed to excellence through diversity.**

POSITIONS OPEN

CURATORIAL POSITION IN ORNITHOLOGY AMERICAN MUSEUM OF NATURAL HISTORY

The Department of Ornithology invites applications from Ornithologists with a Ph.D. for a tenure-track Curatorial position. Research should involve systematics and evolution of birds and include work with museum specimens. The primary responsibility of the successful applicant will be to conduct an outstanding research program and collaborate in Departmental initiatives, including student training, and the curation, databasing, and improvement of collections. Other responsibilities will include participation in the preparation of exhibits and educational programs of the Museum, administration, and other Departmental and Museum duties. The Department maintains a collection of 900,000 specimens, a new molecular systematics laboratory, and a sponsorship program for graduate students and Postdoctoral Fellows. Rank and salary shall be determined based upon qualifications and experience. Full Museum benefits apply. Interested applicants must submit the following information by 1 January 1998: curriculum vitae, brief statement of long-term research interests, complete bibliography and sample publications, and names and addresses of at least three professionals acquainted with the applicant's accomplishments. Submit applications to:

Dr. George F. Barrowclough
Chair, Search Committee
Department of Ornithology
American Museum of Natural History
Central Park West at 79th Street
New York, NY 10024

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

ASSOCIATE SPECIALIST MOLECULAR and CELLULAR BIOLOGIST. The Department of Medicine at University of California at San Francisco has initiated a search for an Investigator to join the Division of Gastroenterology and Liver Center Laboratory. Prerequisites: professional degree in biotechnology and biochemical engineering with skills/experience in molecular and cell biology including small animal surgery and primary cell culture. Incumbent will join a large collaborative research lab as manager and investigator with teaching responsibilities. We anticipate appointment at the Associate Specialist level. Interested individuals send curriculum vitae to: **D. Montgomery Bissell, M.D., Chairman Search Committee, University of California at San Francisco GI Division, 513 Parnassus Avenue, Room S-357, San Francisco, CA 94143-0538.**

The University of California at San Francisco is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

VISITING BIOLOGIST

Ph.D. required and teaching experience preferred for a Visiting position beginning fall, 1998, at John Carroll University, the Jesuit University in Cleveland, offering B.S., M.S., and M.A. degrees. Position is for one year and may, if mutually agreeable, be renewed twice. The successful candidate must have a strong commitment to undergraduate teaching. Primary responsibilities are introductory courses for majors and non-majors, genetics, and/or microbiology. Load is 12 credit hours per semester. Submit a letter of application, curriculum vitae, statement of teaching philosophy, and three letters of recommendation by 15 January 1998 to: **Dr. Miles Coburn, Department of Biology, John Carroll University, University Heights, OH 44118.** *An Equal Opportunity Employer/Affirmative Action Employer.*

The Department of Neurology at the Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, Phoenix, Arizona, has a two-year position available for a **RESEARCH ASSOCIATE**. Applicants should have experience with cellular neurophysiology and patch-clamp techniques. Will work in a spacious epilepsy laboratory and new research building, with a competitive salary. Interested parties should send curriculum vitae, names, addresses, and telephone numbers of three references to: **Robert Fisher, M.D., Ph.D., 350 West Thomas Road, Phoenix, AZ 85013-4496.** *St. Joseph's Hospital and Medical Center is an Equal Opportunity Employer.*

POSITIONS OPEN

BIOENERGETICISTS AND CELL BIOLOGISTS

The Centre for Molecular Biology and Medicine in Melbourne, Australia invites applications from suitably qualified persons to join a progressive multidisciplinary group investigating the human aging process and age-associated degenerative diseases related to mitochondrial DNA and cellular bioenergy changes. Several positions are available.

Broad-based Bioenergeticists with experience in spectroscopic and fluorescence analysis of mammalian cellular dynamics preferred. Cell Biologists or Molecular Pharmacologists with experience in metabolic regulation studies and confocal microscopy preferred.

The appointment will be for up to three years. Research Officers require a minimum qualification of a Ph.D. or equivalent (salary range \$A40,000 to \$A50,000). Senior Research Officers should have at least five years of postdoctoral experience (salary range \$A50,000 to \$A65,000). Suitably qualified medical graduates are encouraged to apply; clinical loading may be applicable.

Applications including a full curriculum vitae, publication list, and two to three referees should be sent by 22 December 1997 to: **Professor A. W. Linnane D.Sc., F.R.S., Centre for Molecular Biology and Medicine, Epworth Hospital 89 Bridge Road, Richmond, Victoria 3121 Australia.** Telephone: +61-3-9426-4200; FAX: +61-3-9426-4201; e-mail: alinnane@cmbm.com.au.

NMR SPECTROSCOPIST

The University of California, San Diego, Department of Chemistry and Biochemistry invites applications for an open NMR Spectroscopist position. The successful candidate will support research programs in structural biology and biophysics using 500 and 600 MHz spectrometers. Candidates must have a Ph.D. and be skilled in modern multidimensional and multinuclear NMR, experienced in implementing new pulse sequences, be familiar with maintenance and support of spectrometers, be willing to be involved in challenging research problems and to teach graduate and postdoctoral fellows in the use of NMR. Appointment series level and salary commensurate with experience and based on the University of California pay scale. Candidates should send a curriculum vitae and names and addresses of references to: **Chair, NMR Search Committee, 9500 Gilman Drive, La Jolla, CA 92093-0332.** Electronic applications will also be accepted by sending the requested documents to e-mail: nmrsec@chem.ucsd.edu. The deadline for applications is January 1, 1998, but until position is filled all applications received will be assured full consideration. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH SCIENTIST POSITIONS

Research Scientist positions available in microbial pathogenesis and molecular immunology to study the molecular pathogenesis and basis of immunity to bacterial pathogens. The program is focused on the identification and molecular characterization of microbial virulence determinants and their mechanisms of action; the nature and characterization of protective immunity; and vaccine development. Position requires Ph.D. and postdoctoral experience in molecular biology, cell biology, immunology, or related field. Interested applicants should send their curriculum vitae, reprints of representative publications, and names of three references to: **Dr. Arthur M. Friedlander, Chief, Bacteriology Division, U.S. Army Medical Research Institute of Infectious Diseases, 1425 Porter Street, Fort Detrick, MD 21702-5011.** FAX: 301-619-2152; e-mail: friedlan@ncicrf.gov.

AVIAN ACOUSTICIAN

The Cornell Laboratory of Ornithology seeks to fill the Engel Chair of Ornithology and Director, Library of Natural Sounds. We seek candidates with demonstrated academic excellence in research in the field of animal communication, preferably in birds. The successful candidate will direct the Library of Natural Sounds, the world's largest repository of sound recordings of birds and other wildlife, and will hold a tenured Professorship at Cornell University. Send curriculum vitae and list of references or request more information from website: <http://birds.cornell.edu/Positions/Openings.htm> or: **André Dhondt, Cornell Laboratory of Ornithology, 159 Sapsucker Woods Road, Ithaca, NY 14850 USA.** E-mail: aad4@cornell.edu. Submit applications by January 9, 1998.

POSITIONS OPEN

RESEARCH POSITIONS THE CANADIAN RED CROSS SOCIETY Blood Services, Québec Centre at Québec

We are seeking a Ph.D.-level **RESEARCH SCIENTIST** with strong postdoctoral training in molecular cell biology and/or immunology, with experience with gene targeting. The selected candidate will join a team that uses cellular and molecular biotechnologies to expand and modify human blood-derived cells. The position is offered as an initial three-year contract with possibility of renewal. Remuneration is competitive and includes an excellent benefit package. Good interpersonal skills, together with fluency in French, are significant advantages.

A two-year **POSTDOCTORAL POSITION** is also available immediately for research in the same areas. Salary will be based on experience.

Interested applicants are invited to send their résumé in confidence no later than December 15, 1997, to:

Jean-Guy Poupart
Director, Human Resources
The Canadian Red Cross Society
Blood Services, Eastern Region of Canada
3185 Rachel Street East, Suite 300
Montreal, Québec H1W 1A3 Canada

RESEARCH FACULTY POSITION AVAILABLE

To study signal transduction pathways and regulation of G protein coupled growth factor and nuclear receptors in neural tissue and in cells in culture. Experience in cellular or molecular neurobiology, protein biochemistry, protein phosphorylation, or pharmacology are required. Send curriculum vitae and names of three references to: **Carolann Imbesi, MCP Hahnemann University School of Medicine, Department of Pharmacology, 3200 Henry Avenue, Philadelphia, PA 19129.** FAX: 215-843-1515. E-mail: friedmane@auhs.edu.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS AVAILABLE

To study signal transduction pathways and regulation of neurotransmitter, growth factor and nuclear receptors in neural tissues. Skills in molecular and cellular neurobiology, protein biochemistry, and neuropharmacology are preferred. Send curriculum vitae and names of three references to: **Carolann Imbesi, MCP Hahnemann University School of Medicine, Department of Pharmacology, 3200 Henry Avenue, Philadelphia, PA 19129.** FAX: 215-843-1515; e-mail: friedmane@auhs.edu.

VACCINE DEVELOPMENT

Department of Defense activities, located at Fort Detrick, Frederick, Maryland, invite applications for GS-13-level scientist positions. **PERMANENT and FOUR-YEAR TERM** positions are available in the Joint Vaccine Acquisition Program (JVAP) office to provide technical support and supervision in monitoring a vaccine development program conducted by a prime systems contractor. Individual should have a Ph.D. in microbiology, immunology, or biochemistry and related laboratory and management experience in the development of vaccines. Contact: **Ellen McNamee, Telephone: 301-619-2247** for a copy of the announcement and application requirements. Completed applications should be received by December 31, 1997, and indicate announcement number of position(s) for which candidate is applying: B307-97YR (permanent) or B324-97 (term). Mail applications to: **Department of the Army, ANCR, ATTN: SFCP-CPR-NR-S-B, 5701 21st Street, Suite 7, Fort Belvoir, VA 22060-5919.**

CHEMICAL BIOLOGY POSITIONS

Two chemical biology tenure-track positions are to be filled in the Department of Chemistry and Chemical Biology at Stevens Institute of Technology. Research areas of interest are cell cycle regulation, signal transduction, evolutionary biology, molecular modeling. A Ph.D. in a relevant field and background in chemistry and mathematics is needed. Assets are expertise in tunneling and/or electron microscopy, ultra-centrifugation, light scattering teaching, and postdoctoral experience. There will be the opportunity to participate in joint research projects within a multidisciplinary environment consisting of chemists, chemical biologists, and biochemical engineers. Send a résumé, research and teaching plans, two research papers, and three letters of recommendation to: **Prof. Carol Stone, Department of Chemistry and Chemical Biology, Stevens Institute of Technology, Hoboken, NJ 07030.** *Stevens is an Affirmative Action/Equal Opportunity Employer.*



Technology Transfer University/Industrial Liaison

New York University and the NYU School of Medicine and Medical Center seek a highly motivated professional for a senior-level position in the Office of the Vice President for Industrial Liaison, Science and Technology Administration. This office is responsible for NYU's technology transfer activities: evaluating, patenting, marketing and licensing new technologies, and generating industrial support for research projects. Reporting to the Vice President for Industrial Liaison, the Director is expected to develop close relationships with NYU faculty, elicit disclosure of new inventions, identify research of interest to industry and develop/implement innovative strategies to protect, market and license emerging technologies.

The successful candidate will have an advanced degree (Ph.D. preferred) in the biomedical or life sciences, current knowledge of new research technologies, significant experience in technology assessment and/or development in a university setting or the pharmaceutical industry, experience negotiating agreements relating to biomedical technologies, understanding of business practices related to protection and commercialization of intellectual property, and familiarity with trends and issues in university technology transfer. Other requirements include outstanding oral, written and interpersonal skills, ability to establish priorities, take initiative, meet deadlines and work independently while functioning effectively in a team environment.

NYU Medical Center offers an excellent benefits package, including 4 weeks paid vacation and tuition remission. Salary commensurate with experience. Please send your resume with salary history to Doriane Gloria, Human Resources Department, NYU Medical Center, 550 First Avenue, New York, NY 10016. Fax: (212) 263-0340. E-mail: Resume@ccmail.med.nyu.edu EOE.

LEADING RESEARCH INTO THE 21ST CENTURY

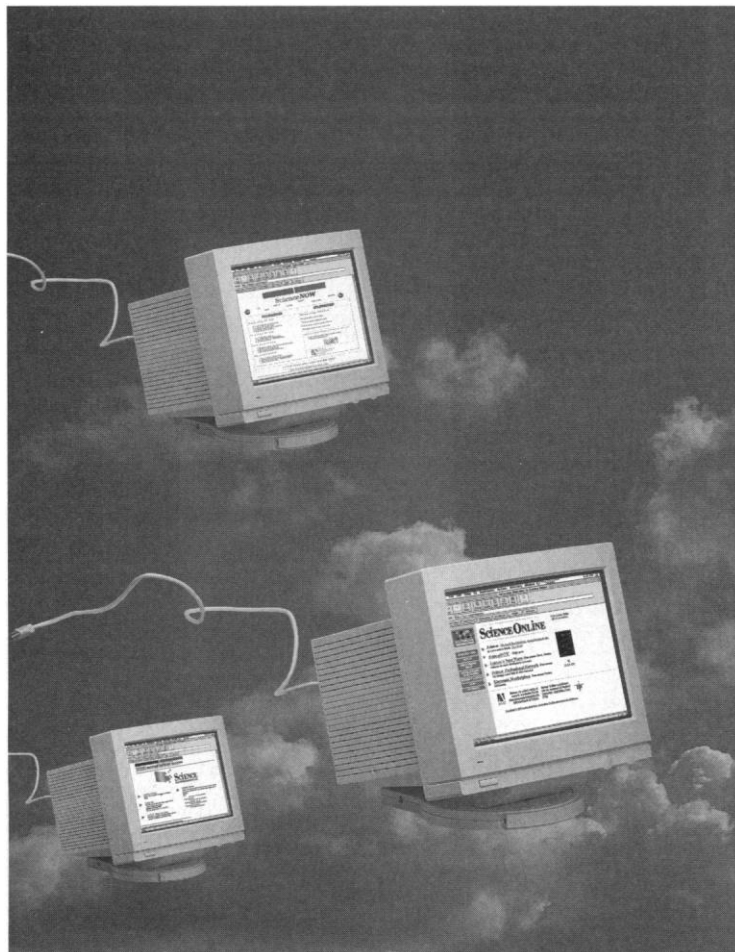
RESEARCH ADMINISTRATIVE MANAGER

ALLEGHENY UNIVERSITY OF THE HEALTH SCIENCES CARDIOVASCULAR & PULMONARY RESEARCH INSTITUTE seeks an experienced Research Administrative Manager to direct, develop and coordinate infrastructure activities for a growing laboratory research program. This position reports to the Institute Director and will provide team leadership to the program administrative team and management support to faculty laboratory supervisors and staff. The candidate should have expertise in academic finance; in proposal development and administration of biomedical and/or basic science grants; significant experience in the areas of human resources; laboratory planning and facilities management; and systems design. Minimum requirements: Master's degree with 5 years' relevant experience in an academic or comparable research/educational setting. A Ph.D. in the laboratory sciences is preferred.

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POSITIONS OPEN

EXECUTIVE DIRECTOR

The National Foundation for Infectious Diseases (NFID) seeks a qualified candidate to assume the position of Executive Director, National Coalition for Adult Immunizations (NCAI). NCAI is a national coalition of health-related organizations and government agencies whose mission is to achieve optimal immunization of adolescents and adults against immunizable diseases. The Executive Director will assume a leadership role in promoting, enhancing, and improving adult immunizations; will establish priorities; will develop and implement funding strategies; will assist in designing, field testing, and executing field studies; and will develop public and professional educational programs on adult immunizations. Professional qualifications include a higher degree in one of the health sciences; primary consideration will be given to those with a doctoral degree. Demonstrated knowledge, skills, and contributions in the fields of public health and immunizations; Supervisory experience and managerial skills are highly desirable. The candidate must have demonstrated writing and interpersonal communication skills, including networking and collaboration. Experience in working with local, state, and federal agencies and professional organizations is desirable.

Send curriculum vitae and salary requirements to: NFID, 4733 Bethesda Avenue, #750, Bethesda, MD 20814.

BOTANIST. Texas Lutheran University seeks a broadly trained Botanist (Plant Taxonomist/Physiologist preferred) to teach plant biology, take part in teaching introductory biology sequence, and develop a plant systematics course. The successful candidate will be expected to develop a research program involving undergraduates, and to seek extramural funding. Postdoctoral experience and experience with analytical instruments (HPLC, CG-MS) preferred. Advising of undergraduates and participation in the General Education Curriculum required. This **TENURE-TRACK POSITION** begins August 1998. The successful candidate will join a dynamic, growing department of five faculty and approximately 130 majors, as described in the biology page of our website: <http://www.txlutheran.edu>. Review of applications will begin January 10, 1998.

Send letter of application, curriculum vitae, copies of transcripts, statement of teaching philosophy, and five references (names, addresses, and telephone numbers) to: Provost, Edna Aguirre Rehbein, Texas Lutheran University, 1000 West Court Street, Seguin, TX 78155. Telephone: 830-372-8002; FAX: 830-372-8008; e-mail: rehbein_e@txlutheran.edu. *Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.*

QUANTITATIVE GENETICIST

The Oceanic Institute, a National Center for Applied Aquaculture Research in Waimanalo, Hawaii, seeks applicants for a full-time position in quantitative genetics. Position requires an M.S. or Ph.D. with a strong background in quantitative or molecular genetics. Additional desired qualifications: experience in management of a selective breeding program, knowledge of marine fish and/or marine shrimp genetics, publication experience, and an ability or potential in research. The successful candidate will be responsible for the selective breeding programs of aquacultured animals at the Waimanalo facility, as well as at other facilities on an as-needed basis. Development of a comprehensive breeding program and maintenance of a computerized pedigree of all animals is required. Application deadline is 19 December 1997, or until a suitable applicant is identified. Salary range is \$30,000 to \$40,000, depending on qualifications. Please submit letter of application, curriculum vitae, and names, addresses, and telephone numbers of at least three professional references to: Human Resources Department, The Oceanic Institute, 41-202 Kalanianaʻole Highway, Waimanalo, HI 96795. *The Oceanic Institute is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION available to study gene products/mechanisms responsible for resistance to Fas-mediated apoptosis, or receptor-transcription factor coupling and gene expression, in B lymphocytes. Individuals with a background in molecular immunology, cellular immunology, or intracellular signaling, and who qualify for a training grant position, 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.

POSITIONS OPEN

ASSAY DEVELOPMENT SCIENTISTS/SENIOR SCIENTISTS

Third Wave Technologies, Inc., a biotechnology company developing nucleic acid diagnostic products, is recruiting assay development scientists. Applicants should have a B.S.-Ph.D. in molecular biology, medical microbiology, biochemistry, or a related field, as well as at least one to five years of experience developing DNA probe assays for detection of pathogenic microorganisms, genetic disorders, or cancer. Candidates should have demonstrated knowledge of all mechanics of nucleic acid hybridization and amplification technologies. Ability to supervise and successfully lead a group of scientists is desired for senior-level positions. Third Wave Technologies, Inc. offers an attractive benefit and relocation package including stock options. Qualified candidates should send their résumé to:

Human Resources Department
Third Wave Technologies, Inc.
502 South Rosa Road
Madison, WI 53719

SENIOR POSTDOCTORAL POSITION AVAILABLE AT SLOAN-KETTERING INSTITUTE

Seeking Research Scientists with several years of postdoctoral experience to define the role of AML1 and ETS transcription factors in normal and leukemic hematopoietic cell survival and differentiation. Applicants should have considerable expertise in the creation and analysis of knockout or transgenic mice, in differential molecular cloning techniques, in the study of signal transduction pathways, and/or cell cycle regulation. Those with expertise in hematopoietic cell development in *Xenopus* or zebrafish systems are also encouraged to apply. A description of your research interests, curriculum vitae, and the names and telephone numbers of three references should be sent to: Dr. Stephen D. Nimer, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, Box 575, New York, NY 10021.

POSTDOCTORAL POSITION available immediately to study cell signaling mediated by PKC and novel phorbol ester/DAG receptors, with particular emphasis on the chimerins and related GAP proteins. Highly motivated candidates with a strong background in biochemistry, cell biology, and/or molecular biology are encouraged to apply. Previous experience in signal transduction is highly desired.

Send résumé, statement of research interests, and names of three references to: Marcelo G. Kazanietz, Ph.D., University of Pennsylvania School of Medicine, 905 Stellar-Chance Laboratories, 422 Currie Boulevard, Philadelphia, PA 19104-6100. FAX: 215-573-9004; e-mail: marcelo@spirit.gcr.upenn.edu.

POSTDOCTORAL POSITION IN NEUROBIOLOGY

An exciting opportunity for a molecular/neuro/cellular biology Ph.D. to study synaptic targeting of nicotinic and glutamate receptors. The new state-of-the-art laboratory located at the Louisiana State University Medical Center will be using a combination of molecular biology, electrophysiology, and gene-targeting techniques. Send curriculum vitae and names of three references to: Dr. Rene Anand, Neuroscience Center of Excellence, Louisiana State University Medical Center, 2020 Gravier, Suite D, New Orleans, LA 70112. E-mail: ranand@lsu.edu.

BIO-ANALYTICAL CHEMIST. Ph.D. Chemist for Postdoctoral/Research Associate position collaborating with multidisciplinary group and mass spectrometry facility. Experience required: analysis of biological samples using HPLC and mass spectrometry (preferably MALDI-TOF). Mail curriculum vitae to: Dr. E. Butelman, Biology of Addictive Diseases Laboratory, Box 171, Rockefeller University, 1230 York Avenue, New York, NY 10021. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITIONS SLOAN CENTER FOR THEORETICAL NEUROSCIENCE AT Brandeis University

We anticipate making three to four new two-year Postdoctoral appointments to the Sloan Center for Theoretical Neuroscience at Brandeis University between January 1, 1998, and September 1, 1998. These positions are intended to allow young scientists with Ph.D.'s in physics, mathematics, or computer science to enter the field of neuroscience. Interested candidates should send a complete curriculum vitae and statement of research interests, and arrange for three letters of recommendation to be sent to:

Dr. Larry Abbott
Volen Center for Complex Systems
Mailstop 013
Brandeis University
415 South Street
Waltham, MA 02254

Associated faculty include L. F. Abbott, J. Lisman, E. Marder, S. Nelson, G. Turrigiano, and X.-J. Wang. *Women and minorities are especially encouraged to apply. Brandeis University is an Equal Opportunity Employer.*

CHEMISTRY SEARCH

Bennington College seeks a Scientist with a strong background in chemistry for a renewable, ongoing appointment starting in September, 1998. The position requires a broad knowledge of physical sciences, the ability to communicate well in small classes, an interest in curriculum innovation within and beyond the sciences, and development of a research program with undergraduates. Research interests may focus on any area within the broad range of biochemistry to chemical physics. Given Bennington's commitment both to the traditional liberal arts and to the visual and performing arts, a diverse interest in social, aesthetic, and intellectual endeavors is also highly desirable. Teaching includes developing an innovative curriculum, including organic chemistry and other courses. Send letter of application, curriculum vitae, statement of teaching philosophy, examples of work, and three letters of recommendation by February 1, 1998, to: Pat Harrison, Chemistry Search Coordinator, Bennington College, Bennington, VT 05201.

POSTDOCTORAL POSITIONS are available to study the molecular mechanisms underlying development of the heart and nervous system. Ongoing projects focus on factors that regulate gene expression and differentiation using a combination of *in vitro* and mouse molecular genetic approaches. Experience in either embryo manipulation/analysis, tissue/organ culture, or molecular biology is preferred. Send curriculum vitae and names of three references to: Peter Cserjesi, Ph.D., Department of Anatomy and Cell Biology, Columbia College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032. E-mail: pc117@columbia.edu.

POSTDOCTORAL POSITION available immediately to study the molecular mechanism of apoptosis and develop therapeutics that modulate apoptosis. Work focuses on the identification, purification, cloning, and expression of novel proteases and other enzymes mediating apoptotic signal transduction. Background in molecular biology and cell biology is required with experience in gene cloning a strong plus. Send curriculum vitae to: Dr. Susan C. Wright, Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mountain View, CA 94043.

POSTDOCTORAL POSITION available immediately in NIH-funded project to investigate signal transduction mechanism in calcium-mediated cell proliferation and apoptosis. Experience in molecular and cellular biology is essential. Send a curriculum vitae and three letters of recommendation to: Dr. Tuan H. Kuo, Department of Pathology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201. E-mail: tkuo@med.wayne.edu. *Affirmative Action/Equal Employment Opportunity.*



THE INSIDE TRACK

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- There are many "Bayer Facts" which distinguish us as a leader. To name one, we are part of Bayer Corporation...a \$32 billion organization which is one of the most broadly-based healthcare companies in the U.S.
- You will plan, develop, write, revise, produce and place articles and other publications in the scientific press and medical literature based on Bayer strategies and objectives. You will also plan, develop and implement continuing education programs and materials in accordance with Bayer strategies and in conjunction with professional societies and continuing education agencies, as well as develop and implement appropriate U.S. components of the international publication strategies and objectives.
- A strong scientific/medical background, a PhD or PharmD in a scientific/medical discipline, plus a minimum of five years of experience in a related scientific/medical/pharmaceutical area required. A minimum of four years of experience must include medical writing. Demonstrated ability to interpret scientific and clinical trial data, strong scientific writing ability and excellent editorial and interpersonal skills essential. Must be independent, creative, innovative and able to juggle a variety of projects. Must also be a self-starter and able to maintain a high level of productivity with minimal supervision. Ability to supervise consultants and motivate individuals along with knowledge of computerized bibliographic, abstract, and database services necessary.
- Please forward your resume including salary history to: **Bayer Corporation, Pharmaceutical Division, Department RB-C28-AB, 400 Morgan Lane, West Haven, CT 06516.** No agencies or phone calls please. For more information on Bayer, search: <http://www.careermosaic.com/cml/bayer/>
- An Equal Opportunity Employer M/F/D/V. Bayer Corp. is committed to enhancing and maintaining cultural diversity within our work environment.
- We appreciate your interest in our company. Unfortunately, we will only be able to respond to those individuals chosen for interviews or additional follow-up.

POSITIONS OPEN

POSTDOCTORAL AND PREDOCTORAL FELLOWSHIPS available in a multidisciplinary, NIH-funded training program concerning behavioral ecology and comparative neurobiology. The program includes a broad range of research interests: behavior, electrophysiology, molecular biology, developmental plasticity, aging, neuropharmacology, neuroendocrinology, biological rhythms, sensory physiology, evolution, and genetics. Nineteen faculty from five departments are involved in this program: C. Akins, M. Bardo, R. Cooper, B. Davis, E. Debski, M. Duncan, T. Getchell, K. Haynes, S. Legan, T. McClintock, D. McMahon, A. Moore, B. Peretz, R. Sargent, A. Sih, D. Westneat, D. Wise, H. Yan and T. Zentall. A Ph.D. and United States citizenship are required. Send current curriculum vitae, letter describing research background and interests, and three letters of references to: **Dr. Marilyn Duncan, Department of Anatomy and Neurobiology, University of Kentucky Medical Center, 800 Rose Street, Lexington, KY 40536-0084. E-mail: mjdunc0@pop.uky.edu.**

POSTDOCTORAL POSITION MOLECULAR BIOLOGY OF OXIDATIVE STRESS IN MUSCLE

Available immediately, for Ph.D. or M.D., to join ongoing studies of molecular aspects of oxidative stress in cultured human muscle as related to muscle aging, β -amyloid precursor protein gene-transfer, and genetic factors. Experience in molecular biology techniques essential. Salary commensurate with experience.

Résumé and three letters of recommendation to:

Valerie Askanas, M.D., Ph.D.
Professor of Neurology and Neurobiology
University of Southern California
Neuromuscular Center
Good Samaritan Hospital
637 South Lucas Avenue
Los Angeles, CA 90017-1912
FAX: 213-743-1617

A **POSTDOCTORAL POSITION** is available to study protease regulation during *Drosophila* development. Candidates must have a background in developmental biology or developmental genetics and experience in working with *Drosophila* and in molecular and cellular techniques (including chromosomal and RNA *in situ* hybridization, cryosectioning, microinjection of embryos). Relevant background/experience and past productivity must be evident in the form of publications in peer-reviewed journals. NIH-scale salary commensurate with experience. Send curriculum vitae with names and telephone numbers of three references to: **Dr. Carl Hashimoto, Department of Cell Biology, Yale School of Medicine, 333 Cedar Street, New Haven, CT 06520.**

NIH-funded (NRSA) **RESEARCH FELLOWSHIP** available for two years beginning July 1998. Applicant must have completed minimum of three years of residency training and be a U.S. citizen. Focus of work will be on molecular and cellular biology and vascular physiology related to extracorporeal circulation, sepsis, and therapeutic angiogenesis. NIH stipend, travel funds, and Harvard appointment as Research Fellow. Contact: **Frank Sellke, M.D., Cardiothoracic Surgery, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Boston, MA 02215. E-mail: fsellke@bidmc.harvard.edu; FAX: 617-667-4898; Telephone: 617-667-4323.**

TWO POSTDOCTORAL IMMUNOLOGISTS

Funded positions to study lineage relationship between memory and effector T cells, and molecular mechanism for tumor evasion of host immunity. Candidates must have a Ph.D. and a proven record in immunology and/or molecular biology research. Please send curriculum vitae, names and telephone numbers of three references to: **Dr. Y. Liu, Associate Professor, Department of Pathology, New York University Medical Center, 550 First Avenue, New York, NY 10016. FAX: 212-263-7838; e-mail: liuy01@mcrcr6.med.nyu.edu.**

POSTDOCTORAL POSITION IN EUKARYOTIC GENE REGULATION

Postdoctoral positions available to study regulation of gene expression in immune system. Studies focus on mechanisms of MHC class II gene expression, regulation of genes by TNF, and role of MHC in fetal-maternal tolerance. Send curriculum vitae and three names of references to: **Jeremy M. Boss, Ph.D., Department of Microbiology and Immunology, Emory University School of Medicine, Atlanta, GA 30322.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS AT THE NATIONAL CANCER INSTITUTE

Position available immediately for studies of signal transduction mechanisms of hematopoietic growth factors. The major focus is directed toward delineating the biochemical and molecular mechanisms of action of stem cell factor, the ligand for the receptor tyrosine kinase c-Kit. Applicants should have a strong background in molecular and/or cellular biology, be a U.S. citizen or permanent resident, and have less than five years of postdoctoral experience. Send curriculum vitae, correspondence, and the names of three references to: **Diana Linnekin, NCI-FCRDC, Building 567, Room 226, NCI-FCRDC, Frederick, MD 21702. E-mail: linnekin@ncifcrf.gov.**

Two positions related to targeted drug development also are available immediately. Studies are focused on mechanisms mediating drug-drug interactions and cell death as well as on developing novel targeting agents for cancer therapy. Experience with antibody engineering or phage display would be a strong asset. Applicants should have less than five years of postdoctoral experience. Send curriculum vitae, correspondence, and the names of three references to: **Susanna Rybak, Ph.D., Building 567, Room 162, NCI-FCRDC, Frederick, MD 21702. E-mail: rybak@ncifcrf.gov.**

POSITION AVAILABLE POSTDOCTORAL FELLOWS

Positions are available in a multidisciplinary training program to study regulation of motility and contractility in smooth and nonmuscle cells. Biophysical, biochemical, cell biological, recombinant DNA, digital imaging, and muscle physiology techniques will be used to examine the regulation and functions of cytoskeletal proteins in relation to a second messenger pathway. Principal investigators include **James T. Stull, Kristine E. Kamm, Kate Luby-Phelps, and Helen L. Yin.** Please address inquiries to: **Kate Luby-Phelps, Ph.D., Department of Physiology, The University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235-9040. Telephone: 214-648-2190; FAX: 214-648-8685. An Affirmative Action/Equal Opportunity Employer.**

NORTHWESTERN UNIVERSITY

POSTDOCTORAL POSITION available; NIH projects to examine the molecular basis for cytokine gene regulation in macrophages (*J.C.I.* 93:921, 1994) and developing genetic therapy for patients and animal models with inflammatory arthritis. Expertise in molecular and cellular biology and experimental animals required. Send résumé and names of three references to: **Richard M. Pope, M.D., Chief, Arthritis Division, Northwestern University Medical School, 303 East Chicago Avenue, Ward 3-315, Chicago, IL 60611. E-mail: rmp158@nwu.edu. Northwestern University Medical School is an Affirmative Action/Equal Opportunity Employer. Hiring contingent upon eligibility to work in the United States of America.**

POSTDOCTORAL POSITIONS in behavioral genetics to participate in a mutagenesis screen for dominant mutations that cause abnormal rest/activity behavior (circadian rhythms and sleep). Postdoctoral Fellows will be involved in the characterization of primary defects and positional cloning of selected mutations. Applicants are sought with experience in molecular/developmental genetics, or sleep and chronobiology. Interested candidates should send/FAX a curriculum vitae with names and telephone numbers of three references, and a short description of research interests to: **Maja Bucan, Ph.D., Center for Neurobiology and Behavior, Department of Psychiatry, University of Pennsylvania, 111 CRB, Philadelphia, PA 19104. FAX: 215-573-2041; e-mail: bucan@pobox.upenn.edu.**

POSTDOCTORAL RESEARCH ASSOCIATE position available January, 1998, to study and conduct research on neurochemical and neurotoxicological effects of organophosphorus insecticides. Ph.D. in pharmacology/toxicology, neurochemistry, or related field required. Send curriculum vitae, three letters of reference, and transcript indicating receipt of Ph.D. to: **Dr. Carey Pope, Division of Toxicology, College of Pharmacy and Health Sciences, Northeast Louisiana University, 700 University Avenue, Monroe, LA 71209-0470. Northeast Louisiana University is an Equal Employment Opportunity Institution.**

POSITIONS OPEN

Two funded **POSTDOCTORAL POSITIONS** are available on projects aimed at studying the molecular and cellular biology of pathogenic protozoa.

Analysis of protein targeting to the plastid organelle of *Toxoplasma gondii*. Experience in molecular biology essential. Experience in cell biology or *T. gondii* a plus. PI: **Dr. Marilyn Parsons.**

Analysis of the highly fragmented mitochondrial rRNAs of *Plasmodium falciparum* and their assembly into ribosomes. Experience in molecular biology essential. Experience in cell biology or *P. falciparum* a plus. PI: **Dr. Jean Feagin.**

Seattle Biomedical Research Institute is a multidisciplinary nonprofit research institute affiliated with the University of Washington. Our website: <http://www.sbri.org>. Please send curriculum vitae and three letters of recommendation to: **Ms. Susan Shearer, Seattle Biomedical Research Institute, 4 Nickerson Street, Suite 200, Seattle, WA 98109-1651. FAX: 206-284-0313. Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS INSTITUTE FOR HUMAN GENE THERAPY Department of Molecular and Cellular Engineering University of Pennsylvania Health System

Positions available for Postdoctoral Fellows in the laboratory of **Dr. James M. Wilson** to study pathogenesis of cystic fibrosis, stem cell biology in non-hematopoietic tissue, molecular virology of adenovirus and adeno-associated virus, and immunology of gene therapy. Please forward curriculum vitae and the names of three references to:

James M. Wilson, M.D., Ph.D.
Director, Institute for Human Gene Therapy
University of Pennsylvania Health System
Room 204 Wistar Institute
3601 Spruce Street
Philadelphia, PA 19104-4268

POSTDOCTORAL POSITION available starting in 1998 to investigate the mechanism of protein folding. Sequence-structure relationships are explored with mutationally variant proteins constructed by site-directed mutagenesis. Biophysical techniques of characterizing folding include measurements of dynamics by fast reaction methods such as stopped-flow and T-jump spectrophotometry. Global and local thermodynamic stability are compared by scanning calorimetry and hydrogen-deuterium exchange (HX). Please submit a curriculum vitae and have three letters of recommendation sent to: **Dr. Barry T. Nall, Biochemistry, University of Texas Health Science Center, San Antonio, TX 78284-7760. FAX: 210-567-6595; e-mail: nall@bioc01.uthscsa.edu. The University of Texas Health Science Center, San Antonio is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIP

Postdoctoral Fellow needed to work on cellular and molecular aspects of lipoprotein metabolism, vascular biology, and atherosclerosis. Recent Ph.D. or M.D. with training in cell or molecular biology. Send letter and curriculum vitae to: **Dr. Edward A. Fisher, Laboratory of Lipoprotein Research, Cardiovascular Institute, Mount Sinai Medical Center, Box 1030, One Gustave L. Levy Place, New York, NY 10029-6574. FAX: 212-828-4178. We are an Equal Opportunity Employer fostering diversity in the workplace.**

RESEARCH SCIENTIST and POSTDOCTORAL FELLOW. Bone/cell/molecular biology. Saint Francis Hospital and Medical Center is seeking candidates who have completed a doctoral degree to join our NIH-supported Bone Biology Laboratory. Interested candidates should send a résumé and references to: **Dr. Ernesto Canalis, Director, Department of Research, Saint Francis Hospital and Medical Center, 114 Woodland Street, Hartford, CT 06105-1299. FAX: 860-714-8053. Equal Employment Opportunity/Affirmative Action—Minority/Female/Disabled/Veterans.**

POSTDOCTORAL POSITION available to study neural mechanisms of motor recovery after stroke. Strong background in electrophysiology and/or behavioral neuroscience preferred. Send curriculum vitae, names and addresses of three references to: **Randolph Nudo, Ph.D., University of Kansas Medical Center, Center of Aging, 5026 Wescoe Pavilion, 3901 Rainbow Boulevard, Kansas City, KS 66160. E-mail: rnudo@kumc.edu. Equal Opportunity Employer.**



HOLLAND LABORATORY

VASCULAR BIOLOGY

American Red Cross

We are currently accepting applications for a faculty position in the Department of Vascular Biology. The successful candidate will be expected to perform the following:

1) Establish an independent basic research program to complement existing department programs. These include identifying and characterizing growth factor-regulated genes, defining the function of extracellular matrix proteins and their receptors in vascular smooth muscle cells, functional analysis of fibroblast growth factor receptors, and investigating the structure and biology of LDL receptor family members; 2) Serve as a mentor to graduate students through a program with nearby George Washington University; and 3) Obtain extramural funding after an initial period of support.

Applicants should send a curriculum vitae, a brief statement of research interests and three letters of reference, by January 2, 1998, to:

Vascular Biology Search Committee
Holland Laboratory
American Red Cross
15601 Crabbs Branch Way
Rockville, MD 20855. EOE, M/F/D/V.



The University of Sydney

Senior Research Fellow in Mass Spectrometry/Protein Chemistry

Centre for Proteome Research and Gene-Product Mapping

Reference No. A45/01

The CPR&GPM is seeking an individual with an excellent record of research productivity and innovation in the field of mass spectrometry as applied to protein chemistry and sample handling. The applicant would hopefully build upon current successes of the CPR&GPM and the Sydney University Prince Alfred Macromolecular Analysis Centre (SUPAMAC) with the expectation to develop a more comprehensive facility dedicated to mass spectrometry with both research and service objectives. Initially, the candidate will work principally on protein characterisation of gene-products from microbes and mammalian sperm, but also interact with scientists from the School of Chemistry. The incumbent will assist with the optimisation of protocols for recently-commissioned robotics (Glaxo Wellcome collaboration) designed to deliver 1,000 protein digests per day to mass spectrometry. CPR&GPM and SUPAMAC share facilities within the National Innovation Centre at the Australian Technology Park in recently refurbished laboratories in a heritage building close to transport and the centre of Sydney.

Essential: Relevant experience in mass spectrometry and/or protein chemistry with several years post-doctoral experience; good analytical skills and publication record; ability to work with others; PhD in relevant field.

Desirable: Success in obtaining research funding assessed competitively; ability to supervise staff; skills base of relevance to low abundance analysis; an interest in bioinformatics and exposure to recombinant DNA technologies.

The position is available for two years. Membership of a University approved superannuation scheme is a condition of employment for new appointees. For further information contact Dr Ian Humphrey-Smith on tel: 61-2 9209 4500; Fax: 61-2 9319 1081; email: ian@proteome.usyd.edu.au

Salary: Senior Research Fellow \$A56,480 to \$A65,126 p.a.
(\$A57,610 to \$A66,429 p.a. from 1 January 1998)

Closing: 8 January 1998

Method of application: Four copies of the application, quoting Reference No., including curriculum vitae, list of publications and the names, addresses and fax numbers of three confidential referees to: The Personnel Officer, College of Sciences and Technology, Carlaw Building, (F07), The University of Sydney, NSW, 2006 Australia

Equal employment opportunity and no smoking in the workplace are University policies. The University reserves the right not to proceed with any appointment for financial or other reasons. See <http://www.usyd.edu.au>

46715



THE
J. DAVID
GLADSTONE
INSTITUTES

University of California,
San Francisco

POSTDOCTORAL FELLOWSHIP -

DR. KARL WEISGRABER

Investigate the structure and function of apolipoprotein E in relation to its role in lipid metabolism and Alzheimer's disease. Prior knowledge and demonstrated skills in molecular biology, site-directed mutagenesis, and recombinant protein production desired.

Please send CV and references to: # C97-023, Gladstone Institutes, P.O. Box 419100, San Francisco, CA 94141, or fax to (415) 431-4039. Email: hr@gladstone.ucsf.edu
Web: <http://gladstone.ucsf.edu>

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THE CHINESE UNIVERSITY OF HONG KONG

Applications are invited for:

Department of Biochemistry

Lecturers (carrying the academic title of Assistant Professor or Associate Professor, as appropriate) (Ref: 97/097(665)/2).

Applicants should have a PhD degree, with postdoctoral experience and significant publication records. In addition, applicants are expected to have either research expertise in molecular analysis of human diseases (a strong background in human genetics and/or ability to use genomic information is a definite advantage); or appropriate experience for helping to enhance the Department's capability in DNA and protein sequence analysis and in data mining and processing. Appointees are expected to establish and maintain independent externally funded research projects and to teach biochemistry courses for undergraduate, postgraduate and medical students. Appointment will initially be made on fixed-term contract basis.

Annual Salary and Fringe Benefits: Lecturer: HK\$522,780 - HK\$873,360 by 10 increments (approx. exchange rate in November 1997: £1 = HK\$12.94; US\$1 = HK\$7.8) Starting salary will be commensurate with qualifications and experience. Benefits include leave with full pay, medical and dental care, children's education allowance, housing benefit for eligible appointee (with appointee contributing 7.5% of salary towards the provision of housing benefit), and where applicable a contract-end gratuity (15% of basic salary). Further information about the University and the general terms of service for appointees is available on our World Wide Web homepage <<http://www.cuhk.edu.hk>>.

Application Procedure: Please send full resume, copies of academic credentials, a publication list and abstracts or reprints of selected representative published papers, a research statement, together with three reference letters to the Personnel Office, The Chinese University of Hong Kong, Shatin, NT, Hong Kong (fax: (852) 2603 6852) before **22 December 1997**. Please quote the reference number and mark "Recruitment" on cover.

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITIONS

Environmental Health Sciences Center for the Environmental and Occupational Health Sciences Institute (EOHSI) at the University of Medicine and Dentistry of New Jersey (UMDNJ)—Robert Wood Johnson Medical School, and Rutgers, The State University of New Jersey. Several positions, funded by research grants, are available to pursue research in the following areas: biochemical pharmacology/toxicology; cellular toxicity of chemical mixtures; developmental neurotoxicology; developmental toxicology; dietary chemicals and cancer prevention; environmental health; environmental health effects; exposure assessment and measurement; molecular mechanisms of P450 regulation; molecular toxicology; neurotoxicology; polymorphism of xenobiotic metabolism and DNA repair genes. For more information send a letter of interest specifying one or more of the above research areas, along with a curriculum vitae and three references to: Mrs. Maudie Louise Woods, Environmental and Occupational Health Sciences Institute, 681 Frelinghuysen Road, Room 410, Piscataway, NJ 08854. FAX: 732-445-4161; e-mail: woods@eohsi.rutgers.edu. UMDNJ/Rutgers University/EOHSI are Affirmative Action/Equal Opportunity Employers.

POSTDOCTORAL POSITIONS IN HUMAN GENETICS MOUNT SINAI SCHOOL OF MEDICINE

Postdoctoral positions are available to study molecular genetics of the human heme biosynthetic pathway and their inborn errors, the porphyrias and sideroblastic anemias. Projects include retroviral gene therapy, gene regulation, generation of knockout and knock-in mouse models to study disease pathophysiology, and recombinant protein purification for crystallography and structure/function studies. Applicants should have a doctoral degree with experience in molecular biology, protein purification, and/or mouse genetics. Positions available immediately. Send résumé or fax curriculum vitae and two letters of reference to: Dr. R. J. Desnick, Department of Human Genetics, Box 1498, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. FAX: 212-360-1809; e-mail: rjdesnick@vaxa.crc.mssm.edu. We are an Equal Opportunity Employer fostering diversity in the workplace.

THE NEUROSCIENCES INSTITUTE SAN DIEGO FLY BEHAVIOR

Applications are invited for the position of POSTDOCTORAL FELLOW to study modeling of the neural basis of behavior in the fruit fly, *Drosophila*. Applicants should have a background in some aspect of neurobiology, preferably related to insects or other invertebrates. Previous experience with *Drosophila* is not mandatory. Submit a curriculum vitae, statement of research interests, and names of three references to: Dr. Ralph J. Greenspan or Dr. Olaf Sporns, The Neurosciences Institute, 10640 John Jay Hopkins Drive, San Diego, CA 92121.

THE NEUROSCIENCES INSTITUTE SAN DIEGO GENETICS AND BEHAVIOR

Applications are invited for the position of POSTDOCTORAL FELLOW to study gene networks, brain development, and behavior in the fruit fly, *Drosophila*. Applicants should have a background in at least one of the following areas: molecular biology, genetics, development, or behavior, though previous experience with *Drosophila* is not mandatory. Submit a curriculum vitae, statement of research interests, and names of three references to: Dr. George L. G. Miklos or Dr. Ralph J. Greenspan, The Neurosciences Institute, 10640 John Jay Hopkins Drive, San Diego, CA 92121.

POSTDOCTORAL POSITION available immediately to identify and characterize the genes involved in fish nephron neogenesis. This position requires a strong background in molecular biology. Experience with renal pathology and/or fish research desirable but not required. Send curriculum vitae to: Dr. R. Reimschuessel, Department of Pathology, University of Maryland School of Medicine, 10 South Pine Street, Baltimore, MD 21201-1192. FAX: 410-706-8414; e-mail: rreimsch@umabnet.ab.umd.edu.

POSITIONS OPEN

RESEARCH TRAINING IN THE BIOLOGY OF AGING AND AGE-RELATED DISEASES

POSTDOCTORAL and PREDOCTORAL FELLOWSHIPS are available at the University of Wisconsin-Madison. Funded by the National Institute on Aging, the training program focuses on basic mechanisms of aging, preventive interventions, and clinical problems encountered by older adults. Training is available in caloric restriction (Weindruch), mitochondrial DNA abnormalities (Aiken), osteoporosis (Binkley), apoptosis (Boothman), women's health (Carnes), muscular aging (Cartee), Alzheimer's Disease (Hell, Malter), antioxidant systems (Ji), glucoregulation (Kemnitz), falls (Mahoney), ocular disease (Mares-Perlman), bone physiology (Marke), glutathione metabolism (Mulcahy), cytotoxic T cells (Muller), oxidative stress (Oberley, Weindruch), DNA repair (Prolla), swallowing (Robbins), muscle satellite cells (Schultz), vitamin K (Suttie), and prostate cancer (Wilding). Traineeships are limited to U.S. citizens and permanent residents. To apply, send letter stating research interests, curriculum vitae, transcripts of all college work, GRE and/or MCAT scores, three letters of recommendation, and proof of U.S. citizenship or permanent residence to: Dr. Richard Weindruch, Institute on Aging, University of Wisconsin-Madison, 1300 University Avenue, Room 2245, Madison, WI 53706. The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer, and all qualified individuals are encouraged to apply.

POSTDOCTORAL POSITION DUKE UNIVERSITY MEDICAL CENTER

Two Junior or Senior Postdoctoral positions are immediately available to study the molecular physiology of cardiac K⁺ channels. Structural function studies will include cloning, site-directed mutagenesis, and expression of ion channel proteins. We seek one Ph.D. with experience patch clamping native cells and a second Ph.D. with a molecular biology background and experience with cloning, expression of proteins, and protein chemistry. Send curriculum vitae and the names of three references to:

Dr. Harold C. Strauss, M.D.
Box 3845
Duke University Medical Center
Durham, NC 27710
Telephone: 919-684-3962
FAX: 919-681-5392
E-mail: hcs@galactose.mc.duke.edu

POSTDOCTORAL POSITION

A Postdoctoral position in brain imaging is available. Candidates with a Ph.D. degree either in psychology, neurobiology, or neuropharmacology needed to join a research team to study central nervous system dopamine and serotonin receptors, and amyloid aggregates in Alzheimer's disease. Major emphasis will be *in vivo* SPECT imaging of brain after intravenous injection of radioactive ligands to study specific brain function. Experience in neuropharmacology, neuroanatomy, and handling primates will be helpful. Send résumé to: Dr. Hank F. Kung, Departments of Pharmacology and Radiology, University of Pennsylvania, 3700 Market Street, Room 305, Philadelphia, PA 19104. E-mail: kungfh@sunmac.spect.upenn.edu; website: http://sunmac.spect.upenn.edu.

POSTDOCTORAL FELLOWSHIP in hippocampal slice electrophysiology, flexible start (June–December 1998), \$25,000 to \$35,000. Intracellular/whole-cell recording experience preferred. Fellow will investigate control of neuronal excitability with state-of-the-art techniques. We are part of a large interdisciplinary Neuroscience Program. The medical school is near Baltimore's Inner Harbor and 45 minutes from Washington, D.C. Send curriculum vitae, research background, and names of three references to: B. E. Alger, Ph.D., Department of Physiology, University of Maryland School of Medicine, Baltimore, MD 21201. FAX: 410-706-8341; e-mail: balger@umabnet.ab.umd.edu.

POSTDOCTORAL POSITION available. Research includes the analysis of the actions of vitamin A and retinoic acid during embryonic development and in tumor cells. Send curriculum vitae, names of three references, and a statement of research interest to: Dr. Lorraine J. Gudas, Department of Pharmacology, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. An Equal Opportunity Employer/Affirmative Action/Minorities/Females/Veterans.

POSITIONS OPEN

CARNEGIE MELLON

GRADUATE STUDY in engineering and public policy (EPP) leads to a research-based Ph. specializing in policy issues in areas such as: Photochemical air pollution, particulates, and the atmospheric science of global change. Design of green products and processes. Life cycle analysis. Pollution prevention in chemical industries and electric power systems including advanced methods of optimization. Low carbon energy systems for electric power and transport. Restructuring of the electric power industry. Energy, telecommunications systems, and environmental control for the developing world, especially India and China. The valuation of ecosystem impacts. Reform of environmental, health, and safety regulation. Risk perception and communication. Risk prioritization. The economics of network-based information services. Internet telephony. Wireless communication. Privatization of electromagnetic spectrum. Applicants must hold B.A. or B.S. in engineering, physical sciences, or math. Education or experience beyond the B.S. very desirable. Contact: Denise Murrin-Macey, Engineering and Public Policy (07), Carnegie Mellon, Pittsburgh, PA 15213. E-mail: eppadmt@andrew.cmu.edu. or visit our website: <http://www.epp.cmu.edu>.

POSTDOCTORAL POSITION available immediately for NIH-funded studies at the interface of isolated smooth muscle physiology/pharmacology and molecular biology. Join an active research group with a multidisciplinary approach to the study of smooth muscle physiology and dysfunction in both human tissues and animal models. Techniques include whole animal studies, cell culture, calcium imaging, electrophysiology (gap junctions, K and Ca channels, biochemistry, isolated tissue physiology/pharmacology, immunocytochemistry, immunohistochemistry, and molecular biology. Please send curriculum vitae, three reprints, statement of research interests, and three letters of recommendation to: Dr. George J. Christ, Associate Professor, Ben Marden Distinguished Scholar in Urology, Laboratory of Molecular and Integrative Urology, Room 716S, Forchheimer Building, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. FAX: 718-430-8983; e-mail: christ@acom.yu.edu. Albert Einstein College of Medicine is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS RESEARCH PROGRAMMER THE SCRIPPS RESEARCH INSTITUTE

Two Postdoctoral positions are available immediately in protein crystallography of metalloproteins. Requires Ph.D. and experience in small or large molecule crystallography. In addition a research programmer to work on XtalView development is needed. Knowledge of C a must, 3D graphics, Unix desirable.

Dr. Duncan McRee
TSRI-MB8
10550 North Torrey Pines
La Jolla, CA 92037
E-mail: dem@scripps.edu
Website: <http://www.scripps.edu/pub/dem-web/lab.html>

POSTDOCTORAL/RESEARCH ASSOCIATE positions available in (1) murine genome program for screening of autoimmune responsible genes, (2) knockout approaches, and (3) molecular and biochemical analysis of disk (spine) degeneration. Understanding and experience in the relevant area is absolute requirement. Applicants should send a curriculum vitae, a brief summary of research experience, and the names and addresses of the current preceptor and at least two additional referees to: Tibor T. Glant, M.D., Ph.D., Professor, Department of Orthopedic Surgery, Rush University at Rush-Presbyterian St. Luke's Medical Center, 1653 West Congress Parkway, Chicago, IL 60612.

POSTDOCTORAL/RESEARCH ASSOCIATE

NIH-funded position to work on peptide and estrogen receptor signaling in human breast cancer. Molecular biology background required. Send curriculum vitae, names and telephone numbers of three references to: Dr. R. J. Pietras, UCLA School of Medicine, Division of Hematology-Oncology, 11-934 Factor Building, Los Angeles, CA 90095-1678. FAX: 310-825-6192; e-mail: rpietras@ucla.edu. Equal Opportunity/Affirmative Action Employer.

**NYU
Medical
Center**

**Bernard B. Levine Fellowship
in
Malaria Vaccinology**

Postdoctoral position to investigate basic mechanisms in malaria vaccinology available for two years starting in the Fall of 1998. Studies will be conducted at New York University Medical Center, an institution well-known for its outstanding research environment in Parasitology. The award is open to individuals with either an M.D. or Ph.D. degree with a proven record of excellence and a strong background in basic immunology and molecular biology. Annual stipend is U.S. \$40,000. Interested candidates should send their curriculum vitae and three letters of reference to Victor Nussen-zweig, M.D., NYU Medical Center, Dept. of Pathology, MSB 131, 550 First Ave., New York, NY 10016. 212-263-5337, Fax 212-263-8179, e-mail: nussev01@mccr.med.nyu.edu.

EUROPEAN CAREER OPPORTUNITIES

**INSTITUTE of CELL, ANIMAL and POPULATION BIOLOGY
READERSHIP IN IMMUNOLOGY**

Applications are invited for a Readership in Immunology. We are seeking to appoint an individual with an established research record in basic cellular immunology to complement the existing strengths in genetics and evolution, population biology, ecology and behaviour, parasitology and immunity to infection at the Institute of Cell, Animal and Population Biology (ICAPB). ICAPB along with the whole Division of Biological Sciences was rated 5 in the 1996 Research Assessment Exercise.

Candidates will be expected to take a leadership role in immunology within the Institute, in both research and teaching, and establish appropriate links with colleagues in the Medical and Veterinary Faculties. The Institute has excellent research facilities for immunology and acts as the central point for undergraduate immunology teaching including the Immunology Honours course.

The post will be permanent with salary on scale:
£29,380 - £33,202 per annum.

Please quote REF: 79671151.

Informal enquiries about this post may be made to Professor R M Maizels, Head of Institute, Ashworth Laboratories, The King's Buildings, Tel: 0131 650 5511, e-mail: r.maizels@ed.ac.uk. Information about ICAPB is also available on <http://helios.bto.ed.ac.uk/icapb/icapb.html>.

Further particulars including details of the application procedure should be obtained from the Personnel Department, The University of Edinburgh, 1 Roxburgh Street, Edinburgh EH8 9TB, Tel: 0131 650 2511 (24 hour answering service).
<http://www.admin.ed.ac.uk/persnnel/recruit.htm>

Closing date: 17 December 1997.



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EUROPEAN CAREER OPPORTUNITIES

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<http://www.medfac.unimelb.edu.au/iuphar/>

**Deadline for submission of abstracts and early registration:
31 January 1998**

Information and Registration:

**INTERPLAN, Convention and Visitor Service
Sophienstrasse 1, D-80333 Munich, Germany
Tel: +49/89/54 82 340 Fax: +49/89/54 82 34-44
E-mail: info@i-plan.de**



**UNIVERSITY OF MANCHESTER
SCHOOL OF
BIOLOGICAL
SCIENCES**

**Lectureship in Biological
Sciences (Pharmacology)**

Applications are invited for this new Lectureship in Biological Sciences (Pharmacology). Candidates with a strong research record in any area of Pharmacology or Toxicology are encouraged to apply. The post is tenable for 5 years in the first instance, and initial salary will be at a point on the Lecturer A/B scale (£16,045 - £27,985) appropriate to experience and qualifications. Informal enquiries may be made to Professor A H Weston (Tel: 0161 275 5490. E-mail Arthur.Weston@man.ac.uk).

Application forms and an information pack (Quote ref: 688/97) available from the Director of Personnel, The University of Manchester, Oxford Road, Manchester M13 9PL. Tel: 0161 275 2028, Fax: 0161 275 2221, Minicom (for the hearing impaired) 0161 275 7889, e-mail: personnel@man.ac.uk Closing date: 19 December 1997.

As an Equal Opportunities Employer the University welcomes applications from suitably qualified people from all sections of the community regardless of race, religion, gender or disability.



POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE

Postdoctoral position available immediately in the Department of Veterinary Science with a large funded research group focusing on the molecular virology and pathogenesis of arteriviruses, particularly PRRSV. Candidates must have an earned Ph.D. with competency in cloning, sequencing, and expression of viral genes; be able to use this competency in studies on the molecular virology and pathogenesis of arteriviruses and have effective oral and written communication and interpersonal relations skills. Applications must include curriculum vitae; statement of relevant experience; listing of relevant publications; copy of transcripts (Ph.D. only); and the names and addresses of three professional references. Apply via mail, FAX, or e-mail to: David Benfield, Ph.D., Department of Veterinary Science, Box 2175, South Dakota State University, Brookings, SD 57007-1396. FAX: 605-688-6003; e-mail: benfield@mg.sdstate.edu. Applications accepted until January 30, 1998, or a suitable candidate is found. Affirmative Action/Equal Employment Opportunity Employer/ADA. Reasonable accommodations: Telephone: 605-699-6361; TT/Voice 605-688-4394.

MOLECULAR IMMUNOLOGY POSTDOCTORAL FELLOW POSITION

A Postdoctoral Fellow position is available for NIH-funded studies on immune-modulated pathogenesis in a murine model of *Chlamydia pneumoniae* lung infection. A Ph.D. degree in immunology, with emphasis on cellular immunology, and working knowledge in molecular biology, are required. Salary and employment up to three years are based on qualifications and annual performance reviews. Send curriculum vitae, a brief summary of research experience and interests, and names of three references to: Dr. Bernhard Kaltenboeck, Department of Pathobiology, 270 Greene Hall, Auburn University, AL 36849-5519. Telephone and FAX: 334-844-2665. Review of applications will begin January 15, 1998, and will continue until a candidate is recommended for appointment. Auburn University is an Affirmative Action/Equal Opportunity Employer and Educational Institution. Minorities and women are encouraged to apply.

Mayo POSTDOCTORAL FELLOWSHIP. Neurobiology of aging—Mayo Clinic Jacksonville is seeking applicants for a Postdoctoral Fellowship to study gene expression in the aging brain. The research in this laboratory addresses mechanisms of differential vulnerability of central cholinergic neurons in aging, particularly with respect to oxidative stress. Ongoing projects include studies of mRNA and protein for candidate genes, using methods of *in situ* hybridization histochemistry, immunocytochemistry, RT/PCR, differential display, and Western blotting. Applicants with graduate-level training in molecular neuroscience or biochemistry, and having an interest in aging research, should send their résumé and addresses of three references to: Dr. Michael McKinney, Ph.D., Mayo Clinic Jacksonville, 4500 San Pablo Road, Jacksonville, FL 32224. Mayo is an Affirmative Action/Equal Opportunity Educator and Employer.

POSTDOCTORAL RESEARCH ASSOCIATES COLLEGE OF MEDICINE University of California, Irvine

Openings for individuals with Ph.D. or equivalent degrees to investigate the role of antimicrobial peptides in epithelial cell biology and innate immunity in mice. Areas of investigation include (a) analysis of mechanisms regulating defensin biosynthesis and gene activity at specific sites of expression and (b) structure: function relationships in defensin peptides and their precursors. Expertise in molecular biology is required. Send curriculum vitae and names of three references to: Andre J. Ouellette, Ph.D., Department of Pathology, College of Medicine, University of California, Irvine, CA 92697-4800. E-mail: aouellet@uci.edu.

MOLECULAR TUMOR BIOLOGY

A POSTDOCTORAL POSITION available to study the signal transduction mechanisms in cancer cells. Recent Ph.D. with experience in molecular biology and biochemistry is desirable. Please send curriculum vitae and three references to: Usha Kasid, Ph.D., Associate Professor, Room E208, The Research Building, Georgetown University Medical Center, 3970 Reservoir Road NW, Washington, DC 20007. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL FELLOW MOLECULAR TOXICOLOGY

University of North Dakota School of Medicine and Health Sciences position available immediately on project defining links between xenobiotic induction of genes and xenobiotic-induced gene mutations. Incumbent will participate in developing a conditional knockout mouse. Desired experiences include Western, Northern, and Southern blotting, PCR, DNA restriction and ligation, electroporation, and cell culturing. Must be eligible to work in the United States. Send curriculum vitae and names of four references to: Janis Hulla, Ph.D., D.A.B.T., Assistant Professor of Pharmacology and Toxicology, University of North Dakota School of Medicine, Grand Forks, ND 58202-9037. For more information, Telephone: 701-777-4293; website: <http://www.med.und.nodak.edu>; e-mail: j.hulla@medicine.und.nodak.edu. University of North Dakota is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN MOLECULAR PHARMACOGENETICS

Two Postdoctoral positions are available for up to five years in NCI-funded research program investigating genetic predisposition to cancer from aromatic and heterocyclic amine carcinogens. The selected candidates will be encouraged to apply for independent research funding and available tenure-track faculty positions.

For further information, access website: <http://www.louisville.edu/medschool/pharmacology>. Please send a letter of interest including career goals, curriculum vitae, and names of three references to: David W. Hein, Professor and Peter K. Knoefel Endowed Chair, University of Louisville School of Medicine, Louisville, KY 40292. E-mail: dwhein01@home.louisville.edu. The University of Louisville is an Equal Opportunity Employer.

POSTDOCTORAL AND RESEARCH ASSOCIATE POSITIONS

Are available immediately in the following areas: functions and polymorphisms of P450 and related enzymes; molecular mechanisms of carcinogenesis; oxidative stress, signal transduction, and effects of antioxidants; bioavailability and metabolism of tea polyphenols; inhibition of carcinogenesis by tea including translational research in humans. Scientists with a strong background in biochemical pharmacology/toxicology, molecular/cell biology, or translational research are encouraged to apply. Send curriculum vitae and names of references to: Dr. Chung S. Yang, Laboratory for Cancer Research, College of Pharmacy, Rutgers, The State University of New Jersey, Piscataway, NJ 08854. FAX: 732-445-0687. An Equal Opportunity Employer.

POSTDOCTORAL POSITION

POSTDOCTORAL FELLOWSHIP available to study conformation, folding, and ligand binding properties of collagen-like peptides. Requires a Ph.D. in a relevant science. Experience in physical biochemistry or peptides is desirable. Send curriculum vitae, plus the names of two references to: Dr. Barbara Brodsky, Department of Biochemistry, University of Medicine and Dentistry of New Jersey (UMDNJ)—Robert Wood Johnson Medical School, Piscataway, NJ 08854. E-mail: brodsky@umdnj.edu. UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minority/Female/Disabled/Veterans, and a member of the University Health System of New Jersey.

POSTDOCTORAL POSITIONS. To study mechanisms and regulation of gene expression during lipid biosynthesis and adipocyte differentiation. Research areas include (1) mode of action and downregulation of *pref-1*, an inhibitor of adipogenesis; (2) mechanisms and signaling pathway for transcriptional activation of lipogenic genes by insulin. Send curriculum vitae and names of references to: Dr. Hei Sook Sul, Department of Nutritional Sciences, University of California, Berkeley, CA 94720. E-mail: hsul@nature.berkeley.edu.

A POSTDOCTORAL POSITION is available immediately for a project using reduced representations of RNA to interpret NMR data. Experience in molecular simulation or macromolecular structure determination is required. Programming experience is highly desirable. Send or FAX curriculum vitae and three letters of reference to: Jeff Hoch, Rowland Institute for Science, 100 Edwin H. Land Boulevard, Cambridge, MA 02142. FAX: 617-497-4627.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS MOLECULAR PHYSIOLOGY OF ORGAN SYSTEMS FUNCTION

The most important questions facing contemporary biology concern how specific genes regulate cell and organ systems function, the physiological responses to environmental stress, development, and disease processes. We are seeking outstanding candidates to begin an exciting career studying the role of genes (channels, ion pumps, signaling enzymes, transcription factors, etc.) in mediating physiological and pathophysiological function in mammalian cells and gene-manipulated mice. A multi-laboratory NIH training grant supports these positions. Multidisciplinary training is designed to prepare Fellows to investigate the molecular basis of physiological function and disease. The Department of Molecular and Cellular Physiology is one of the top-funded programs in the use of molecular approaches to study physiological processes. Interested U.S. citizens and permanent residents should send their résumé and three letters of reference to: c/o Ms. Rhonda Hentz, Department of Molecular and Cellular Physiology, University of Cincinnati, P.O. Box 670576, Cincinnati, OH 45267-0576.

POSTDOCTORAL POSITIONS BOSTON UNIVERSITY SCHOOL OF MEDICINE

ELECTROPHYSIOLOGIST and MOLECULAR BIOLOGIST sought for Postdoctoral positions in the Laboratory of Molecular Neurobiology, a multidisciplinary research team studying the modulation and regulation of ligand-gated ion channels. Electrophysiological, pharmacological, and molecular biological approaches are combined to study mechanisms of receptor modulation and regulation. Current research includes (1) studies of the molecular mechanisms of action of GABA, NMDA, kainate, and AMPA receptor modulators, including benzodiazepines, barbiturates, ethanol, and steroids; (2) identification and pharmacological regulation of transcription factors that control receptor gene expression. Competitive salary and benefits. Send curriculum vitae and list of references to: Dr. David H. Farb, Dr. Terrell T. Gibbs, and Dr. Shelley J. Russek, Department of Pharmacology, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118-2394.

POSTDOCTORAL POSITION

Available immediately: Postdoctoral positions in molecular immunology/molecular virology in a dynamic competitive research program in HIV immunology and pathogenesis (see *Nature Biotech.* 15:641, 1997). Applicant must have experience in cloning, sequencing, and gene construction of expression vectors. Requires recent Ph.D. and the ability to work in a team.

Experience in immunology and virology desirable, but not necessary. Send résumé and names of three references to: Michael G. Agadjanyan and Dr. David Weiner, University of Pennsylvania, Room 505b, Stellar-Chance Labs, Philadelphia, PA 19104. FAX: 215-573-9436. Equal Opportunity Employer.

POSTDOCTORAL FELLOW/ RESEARCH FELLOW

To study genotoxic stress responses and their relation to tumor suppressors, genomic instability, and/or sensitivity to cytotoxic agents. Applicants are sought to pursue studies in: transgenic animals, gene regulation, and/or protein biochemistry. Position requires a doctoral degree with less than five years of relevant postdoctoral experience. Annual stipend is \$26,000 to \$42,000 based on years of experience and qualifications. Send résumé and names of references to: Dr. Al Fornace, Building 37, Room 5C09, National Cancer Institute, NIH, Bethesda, MD 20892-4255. FAX: 301-480-1946; e-mail: af62@nih.gov. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available in early 1998 to study the molecular genetics of human gynecologic cancers. Candidates must have the Ph.D. degree and a strong background in basic techniques of cell and molecular biology and molecular genetics, such as cell culture, molecular cloning, PCR, sequencing, and mutation analysis. Salary commensurate with experience. Send curriculum vitae and names of three references to: Dr. Jeff Boyd, Department of Surgery, Box 201, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. Memorial Sloan-Kettering Cancer Center is an Equal Opportunity Employer.

POSITIONS OPEN

DEAN, DIRECTORS, AND FACULTY POSITIONS

The Tzu Chi College of Medicine invites applications and nominations for the following full-time positions: (1) Chairman of the Department of Life Sciences, Professor level. Candidates must have teaching/research experience in life sciences, good organizational and interpersonal skills. The successful candidate will also head the College of Life Sciences to be established in 2001. (2) Directors of the Institute of Toxicology, Institute of Neuroscience, Professor level. Candidates with expertise in neurotoxicology and cognition or integrative neuroscience will be given high consideration. (3) Several positions are open at the Assistant/Associate or Full Professor level in the areas of environmental toxicology, neurotoxicology, developmental neurobiology, and molecular biology. All successful candidates must have a good command of English and Mandarin, and are expected to contribute to undergraduate and graduate teaching and carry on vigorous research programs supported by extramural funds. Tzu Chi College of Medicine is located in the scenic Hualien. We offer housing, competitive salary, and excellent start-up packages. Please send résumés, statements of teaching/research interests, and names of three references by March 31, 1998, to:

Ming-Liang Lee, M.D., Ph.D.
Dean, Tzu Chi College of Medicine
701, Section 3, Chung-Yang Road
Hualien 970
Taiwan

POSTDOCTORAL FELLOW

The Division of Molecular Virology and Immunology, Department of Microbiology and Immunology, Georgetown University Medical Center seeks a candidate for a Postdoctoral Fellow position. Program emphasis will be in the area of molecular immunology of woodchuck hepatitis virus infection and disease as occurs in the woodchuck model. The candidate should possess a Ph.D. and/or M.D. with training in cell and molecular biology, biological and biochemical assays, and mechanisms of cellular regulation of gene expression. Send letter of application and curriculum vitae to:

Dr. John L. Gerin
Division of Molecular
Virology and Immunology
5640 Fishers Lane
Rockville, MD 20852

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POSTDOCTORAL POSITION SIGNALING DURING VESICULAR TRAFFICKING

University of California San Diego

Molecular and cellular studies on proteins that regulate G-protein signaling during membrane trafficking in mammalian cells. Role of RGS proteins and other proteins involved in G-protein mediated signaling pathways. Preference given to those with a strong background in molecular biology, cell biology, and signaling.

Send curriculum vitae and names of three references to:

Marilyn G. Farquhar, Ph.D.
Division of Cellular and Molecular Medicine
University of California San Diego
9500 Gilman Drive
La Jolla, CA 92093-0651

University of California is an Affirmative Action/Equal Opportunity Employer.

A POSTDOCTORAL POSITION is available immediately to study the role of PTKs, MAPKs, cyclin-CDKs, and CDKs in eicosanoid-induced vascular smooth muscle cell growth. A background in gene regulation and signal transduction is preferred. Salary is negotiable. Interested candidates should send their curriculum vitae and the names of two references to: Gadiparthi N. Rao, Ph.D., 9.138 Medical Research Building, Route 1064, University of Texas Medical Branch, 301 University Boulevard, Galveston, TX 77555-1064. Telephone: 409-747-1851; FAX: 409-747-0692; e-mail: g Rao@cardiology.utmb.edu.

University of Texas Medical Branch is an Equal Opportunity/Affirmative Action/Minority/Female/Disabled/Veteran Employer.

POSITIONS OPEN

MICROBIOLOGIST/BIOCHEMIST

The University of Minnesota, Morris seeks an individual who combines broad intellectual interests with a strong commitment to excellence in undergraduate teaching and research involving undergraduates, to fill a tenure-track position in microbiology and biochemistry beginning September 14, 1998. The selected candidate will: teach a broad range of undergraduate courses including microbiology and biochemistry; advise undergraduates; pursue research; and share in the governance and development of the biology program as well as the campus at large. Candidates must expect a Ph.D. in microbiology or biochemistry or a related field by September 14, 1998. Two years of teaching experience at the undergraduate level is required. (Graduate Teacher's Assistant experience is acceptable.) The University of Minnesota, Morris is a small, selective, residential, undergraduate liberal arts college of the University of Minnesota. Salary range: \$33,000 to \$39,000 depending upon qualifications. Applications must include a letter of application, résumé, graduate and undergraduate transcripts, three reference letters, and two statements: (1) a teaching statement in which approaches to teaching are described and past teaching experiences are evaluated, and (2) a research statement in which the applicant proposes a research program that is viable and accessible to advanced students at a small liberal arts college. Send applications to: **Biology Search Chair, Division of Science and Mathematics, University of Minnesota, Morris, MN 56267-2128.** Applications must be received by February 9, 1998. See website: www.mrs.umn.edu/academic/biology/. The University of Minnesota is an Equal Opportunity Educator and Employer.

FACULTY POSITION IN PHYSICAL GEOGRAPHY

The Department of Biological and Environmental Sciences at Georgia College and State University invites applications for a tenure-track, nine-month ASSISTANT PROFESSOR position in physical geography to begin in August 1998. A Ph.D. in the earth sciences is required with teaching specialization in physical geography. Other teaching responsibilities will include physical and historical geology, biogeography, introductory GIS, and courses in any of the following areas: hydrology; geomorphology; or climatology. Effective teaching, publications, and university/community service are requirements for promotion and tenure. Salary is commensurate with qualifications. Screening will begin February 2, 1998, and continue until position is filled. Submit letter of application, curriculum vitae, three letters of reference, and official transcripts of all degrees to: **Dr. Dennis Parmley, Department of Biological and Environmental Sciences, Georgia College and State University, Milledgeville, GA 31061.** *An Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR AQUATIC ECOLOGY

The Department of Biological Sciences invites applications for a tenure-track position in aquatic ecology starting September 1998. Preference will be given for those applicants with postdoctoral experience, an excellent record of research productivity, and teaching experience. Candidates are expected to develop a strong independent research program in aquatic ecology (marine or freshwater). Preference will be given to those candidates who incorporate field-based empirical work into the study of organismal and population-level questions. Teaching responsibilities may include aquatic ecology, limnology, and invertebrate zoology. Participation in the department's marine biology major and program in conservation biology is expected. Salary and start-up funds are competitive. Applicants should submit curriculum vitae, statements of both teaching and research interests, and representative reprints, and arrange to have three letters of recommendation sent by 15 January 1998 to: **Jean Witkowski, Aquatic Ecology Search Committee, Department of Biological Sciences, Ohio University, Athens, OH 45701.** For more information visit the department's website: <http://cneuro.zool.ohiou.edu>.

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POSITIONS OPEN

CHAIRPERSON, DEPARTMENT OF CHEMISTRY COLLEGE OF ARTS AND SCIENCES University of Louisville

The University of Louisville is seeking a Professor and Chair for its Department of Chemistry. Requirements for this position include a doctorate in chemistry or a closely related area and academic qualifications commensurate with the rank of Professor. Essential qualifications are a vigorous and funded research program in any area of chemistry, demonstrated leadership and administrative abilities, and a commitment to innovation in undergraduate and graduate education.

The University of Louisville, located in the state's largest urban cultural center, has instituted a Challenge for Excellence. Primary goals of this plan are improved undergraduate education and attaining Carnegie Research I classification. Areas targeted for investment include the department's programs in chemical catalysis and biohealth research.

If interested, please send a letter of application describing your research and administrative abilities, teaching goals, a summary of research support, and a current curriculum vitae to: **R. J. Wittebort, Search Committee Chair, Department of Chemistry, University of Louisville, Louisville, KY 40292.** In addition, arrange to have three letters of reference forwarded. The deadline for receipt of all materials is January 10, 1998, or until a suitable candidate is identified. *Women and minorities are encouraged to apply. The University of Louisville is an Affirmative Action/Equal Opportunity Employer.*

A RESEARCH ASSISTANT PROFESSOR position and a POSTDOCTORAL POSITION are available in the newly established Center for Animal Transgenesis and Germ Cell Research located at the New Bolton Center Campus of the School of Veterinary Medicine, University of Pennsylvania. A major focus of research is the biology of male germ line cells, including culture, transfection, and transplantation of spermatogonial stem cells. Emphasis is on farm animal species. Individuals with a background in cell and molecular biology and an interest in stem cells or germ cells are encouraged to apply. Send curriculum vitae, names of three references, and a letter describing research background and interests to:

R. L. Brinster
Center for Animal Transgenesis and
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School of Veterinary Medicine
University of Pennsylvania
3850 Baltimore Avenue
Philadelphia, PA 19104

HEALTH RESEARCH ANALYST

ECRI, a nonprofit health research agency, seeks doctoral-level SCIENTISTS with life science or clinical epidemiology training and a voracious reading ability to evaluate clinical literature and critique new health technologies. Excellent analytical, statistical, and science-writing skills essential. Experience in meta-analysis helpful. This is a full-time in-house position. Send FAX or résumé to: **Department CT, ECRI, 5200 Butler Pike, Plymouth Mtg., PA 19462.** FAX: 610-834-1275. *Equal Opportunity Employer/Affirmative Action.*

POSTDOCTORAL POSITION available immediately to study the role of translocation machinery and molecular chaperones during polytopic protein folding and assembly at the ER membrane. Experience in protein translocation, folding, and/or degradation is desired. M.D. and/or Ph.D. is required. Please submit a 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. *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION is available immediately to work on various aspects of integrin function. Specific projects include: (1) regulation of integrin adhesive and signaling functions by crosslinking enzymes, and (2) functional analysis of muscle β 1D integrin (see *J. Cell Biol.* 132:211-226, 1996). Individuals with Ph.D. trained in biochemistry and cell biology are encouraged to contact: **Alexey Belkin, Ph.D., Department of Biochemistry, American Red Cross, 15601 Crabbs Branch Way, Rockville, MD 20855.** Telephone: 301-738-0725; FAX: 301-738-0794; e-mail: belkina@usa.redcross.org.

POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATES in cell and molecular biology of liver injury and fibrogenesis. To participate in studies on molecular mechanisms of cytokine/chemokine, metalloproteinase gene expression by hepatic non-parenchymal cells including the roles of cross-coupling of transcriptional factors (NF- κ B, AP-1, RAR, RXR). Self-motivated individuals with Ph.D. and training in cell biology, molecular biology, and/or biochemistry, are encouraged to apply. Send curriculum vitae to: Dr. H. Tsukamoto, Professor of Medicine and Pathology, University of Southern California, 2011 Zonal Avenue, HMR-101, Los Angeles, CA 90033. E-mail: htsukamo@hsc.usc.edu.

DOCTOR OF ARTS IN BIOLOGICAL SCIENCES. FELLOWSHIPS are available for persons interested in this innovative program which stresses preparation for undergraduate teaching at colleges and universities. Applicants should hold a Master's degree in biology. Deadline for receipt of applications is 1 March 1998. For more information about the program, our job placement record, etc., contact: **Chairman D. A. Committee, Department of Biological Sciences, Idaho State University, Pocatello, ID 83209.** An Equal Opportunity Employer.

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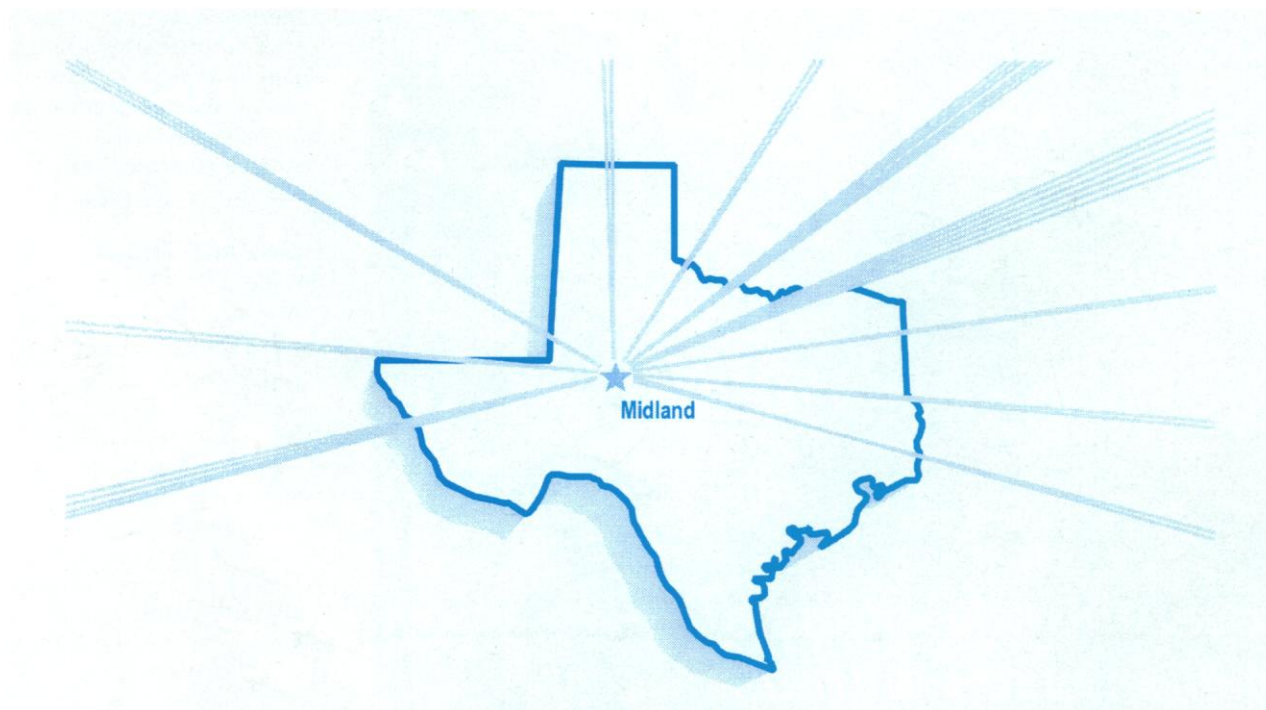
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