

EndoPack™



EndoPack-AO™, Normal Human
Aortic Endothelial Cells (HAEC) in EGM®

EndoPack-PA™
Pulmonary Artery, HPAEC

EndoPack-AO™
Aorta, HAEC

EndoPack-UV™
Umbilical Vein, HUVEC

Normal Human Endothelial Cells in Low Serum (2%) Medium, EGM®

Each EndoPack™ is a complete cell system containing either cryopreserved or proliferating cells, optimized low serum medium and the necessary reagents for subculture and propagation of the cells in vitro. EndoPacks™ are routinely used in drug discovery, cardiovascular and cancer research and basic research.

EndoPack-AO™, EndoPack-PA™ and EndoPack-UV™ are just three in our product line which has grown to 13 complete cell systems providing dermal, vascular and airway cells. All systems are performance and virus tested. You may also purchase each component from any system separately. For more information, in the US & Canada simply call (800) 852-5663 (voice) or (619) 541-0823 (fax).



NORMAL HUMAN CELL SYSTEMS™

In the BENELUX call SANBIO bv at: + 31 4132 51115 • In FRANCE call TEBU at: (01) 34 84 62 52 • In GERMANY & AUSTRIA call CellSystems, GmbH at: 49 + (02228) 8057
In ITALY call DIDspa at: (02) 4009 0222 • In JAPAN call KURABO Industries, Ltd. at: 0720 20 4504 • In SCANDINAVIA call Cytotech at: 45 + (042) 24 90 41
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In the UNITED KINGDOM & IRELAND call TCS Biologicals, Ltd. at: 44 + 0296 71 4071

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Circle No. 10 on Readers' Service Card

Cell Fusion System

The ECM 200 Super System includes a sophisticated proprietary 1-MHz alternating current wave form for rapid, accurate cell alignment and a precise high-voltage square wave pulse for both electrofusion and electroporation. The system includes a graphic pulse analyzer for accurate moni-



toring of chamber conditions. Included with the system are specially designed microslides that have parallel electrodes adhered to glass for direct viewing under a microscope. **BTX. Circle 139.**

Immobilized Proteinase K

Proteinase K is one of the best known nonspecific proteases used in the isolation and purification of nucleic acids. In many cases the enzyme has to be removed after the reaction to avoid interference in later steps. Immobilized proteinase K offers stable, covalent bonding via the free-moving tentacles. It is easy to remove by centrifugation or filtration and free of DNases, RNases, and phosphatases. **E. Merck. Circle 140.**

RNA Isolation System

The RNA Tack Kit for the isolation of high quality RNA from mammalian and bacterial cells features a proprietary lysis reagent that does not contain phenol. The RNA separation is based on the principle of first separating the nuclei from cytoplasmic

RNA by the use of the lysis reagent. This is followed by precipitation of proteins and of residual DNA, while RNA is maintained in solution. The total RNA is purified by mixing the crude RNA solution with an RNA binding resin and washing with ethanol. The pure RNA is eluted from the resin by a simple elution with water or buffer. The procedure can be completed in less than 2 hours. The isolated RNA can be used for Northern blot analysis, dot blot hybridization, poly(A⁺) mRNA selection, in vitro translation, RNase protection assay, molecular cloning, and for reverse transcriptase polymerase chain reaction. **Biotech Laboratories. Circle 141.**

Pure PCR Enzyme

AmpliTaq DNA Polymerase LD (low DNA) is a pure enzyme for polymerase chain reaction (PCR) amplifications that is especially useful for amplification of bacterial targets and for amplifications involving low copy numbers. Low copy number applications include infectious disease research of viruses and PCR amplification of rare genes. AmpliTaq DNA Polymerase LD is the same enzyme as AmpliTaq DNA Polymerase; however, it is purified through a proprietary separation process to substantially reduce contaminating bacterial DNA sequences. **Perkin-Elmer. Circle 142.**

Gel Documentation System

The GDS7500 is a powerful system for documenting and analyzing gels, films, and membranes. It features a cooled charge-coupled device integrating camera that minimizes noise to allow for DNA detections as low as 0.05



ng. The compact, modular design includes a 14-inch color display monitor that provides false color enhancements for detecting faint bands. The GDS7500 has a thermal printer that produces 256 shades of gray in under 5 s at 1/20 the cost of conventional film. The ability to print an identification number, print number, and file name on the thermal printout are among the system's user-friendly characteristics. **UVP. Circle 143.**

Scientific Graphing Software

Version 3.2 of PlotIT for Windows provides a number of new interface and data manipulation features to give scientists additional control over the process of graphing numerical data. A true 32-bit application, it will run under Windows 3.1, Windows 4.0, and Windows 3.2. It now supports Microsoft OLE 2.0, so users can include PlotIT graphs in other applications. The new version provides users more control over the graphing process, such as the ability to choose multiple elements for dragging or resizing and the ability to plot automatic multiple curves directly from a worksheet. Grid generation now includes the inverse distance interpolation method. Users can dynamically select data while reading datafiles using arithmetic relational or logical operators, and can jump quickly to any cell in a worksheet. The new version

doubles the size of a worksheet to 32,700 rows. **Scientific Programming Enterprises. Circle 144.**

Literature

Second Messenger is a newsletter that describes more than 70 antibodies to proteins involved in signal transduction for research into mechanisms of cell communication. **Affiniti Research Products. Circle 145.**

The 1994 *Scienceware* catalog provides 180 pages of information on more than 4000 items, including a wide array of bottles, bags, racks, magnetic stirring bars, dispensers, markers, funnels, pipette accessories, dessicators, fume hoods, safety items, and general laboratory supplies. **Bel-Art Products. Circle 146.**

Temperature Control is Our Science is a condensed catalog offering a full line of programmable hot-plate-stirrers, dry block heaters, and constant temperature circulators and baths. **PMC Industries. Circle 147.**

Fitzgerald 1994 Reagent Catalog: Antibodies and Antigens are in Our Blood details a line of products including monoclonal antibodies, purified murine isotypes, affinity purified polyclonal antibodies, antigens, purified immunoglobulins, calibrators and controls, diluents, enzyme-conjugated derivatives, and conjugated haptens. **Fitzgerald Industries International. Circle 148.**

NALGENE's *Laboratory Notebooks* is a four-page brochure detailing this line for recording data in the lab and in the field. **Nalge. Circle 149.**

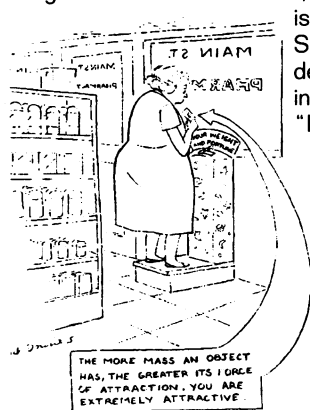
Advanced ChemTech Product Catalog features amino acids, resins, and reagents for peptide synthesis, including Boc- and Fmoc-amino acids, D-amino acids, unusual amino acids, amino acid alcohols, and N-methyl-amino acids. **Advanced ChemTech. Circle 150.**

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 is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card and placing it in a mailbox. Postage is free.

who says science has to be serious?

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Now, after years of clipping his work from the pages of *Science*, you finally have the chance to add the very first Downes cartoon collection to your bookshelf: the perfect reference work on science and technology taken to extremes. Seen individually, Downes's cartoons project a zany view of life in the laboratory—and beyond. But taken in larger doses—120 at a time, say—the Downes philosophy



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No matter *when* you made the discovery that Sidney Harris is the Nobel laureate of laughs, you'll want this new collection. This "best of the best" book spans Harris's 25-year (so far) career, and features such all-time favorites as the miracle cartoon, peer review, the sperm bank robbery, the periodic table (Greek style), theories and proofs, Bunsen's burner, and Pavlov's cat.



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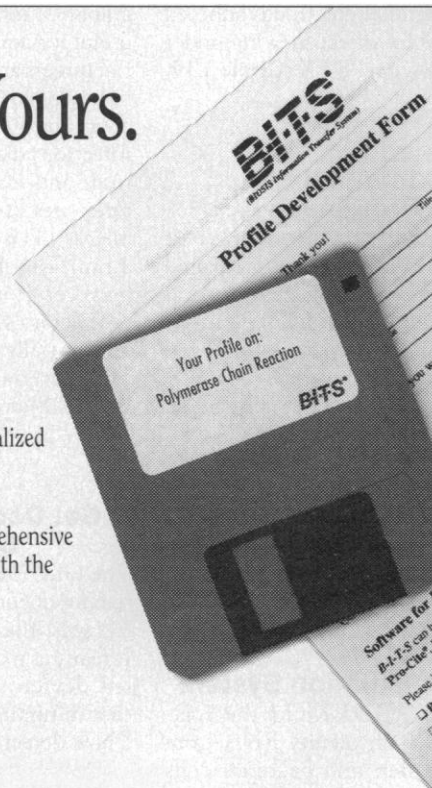
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POSITIONS OPEN

MOLECULAR TOXICOLOGIST

The Department of Community and Environmental Medicine at the College of Medicine, University of California, Irvine, seeks, subject to funding, to fill a **POSITION IN MOLECULAR TOXICOLOGY**. Applicants should have a Ph.D. in biochemistry/molecular biology with postdoctoral training in toxicology, and should have a strong interest in conducting research in molecular toxicology with special emphasis on cloning genes for protein biomarkers for early detection of ovarian cancer in humans. The position to be filled is **ASSISTANT ADJUNCT PROFESSOR** and is to be funded by the applicant's own research grant(s). In addition to conducting basic research, academic duties include teaching in the Graduate Program in Environmental Toxicology and in the College of Medicine. Qualified applicants should send their applications including curriculum vitae, summary of research and teaching plans, and the names and addresses of three references to: **Daniel B. Menzel, Ph.D., Chair, Department of Community and Environmental Medicine, University of California, Irvine, Irvine, CA 92717-1825.** *UCI: Rooted in education; enriched by diversity.*

VISITING ASSISTANT PROFESSOR OF BIOLOGY

Applications are invited from qualified zoologists to fill a sabbatical leave position for the 1994-95 academic year. Applicants will be expected to teach courses in chordate comparative anatomy, histology, evolution and the section on evolution in the general biology course. Prior experience teaching at the undergraduate level is important. Please send curriculum vitae, statement of teaching philosophy, and three letters of recommendation by 5 April 1994 to: **Dr. Bruce Criley, Chair, Department of Biology, Illinois Wesleyan University, Bloomington, IL 61702-2900.**

Illinois Wesleyan University is an Equal Opportunity Employer and persons from minority groups and women are encouraged to apply.

ECOLOGY. Entry-level **ASSISTANT PROFESSOR**, tenure-track position with major teaching responsibility in general biology and ecology. A commitment to teaching at the undergraduate level is essential; research interest in ecotoxicology is desired. Ph.D. required, teaching load 15 credit hours per quarter. To begin September 1994. Augusta College is a 5500 student, senior unit of the University System of Georgia. Application deadline 17 March 1994. Send curriculum vitae, a statement of teaching philosophy, and names, addresses, and telephone numbers of three references to: **Dr. Bruce Saul, Department of Biology, Augusta, GA 30904-2200.** *Augusta College is an Affirmative Action/Equal Opportunity Employer and specifically invites and encourages applications from women and minorities.*

FOREST PATHOLOGIST

The University of California at Berkeley, Department of Environmental Science, Policy, and Management, invites applications for a nine-month, tenure-track appointment at the level of **ASSISTANT, ASSOCIATE or FULL PROFESSOR** beginning July 1, 1994. Salary is dependent on experience/qualifications. The appointee will be expected to continue an active research program on the biology and epidemiology of forest tree pathogens. This includes disease problems and interactions that have substantial impact on forest resources (root and rust diseases, dwarf mistletoes, insects, air pollution and climate change). Specific program directions will depend upon applicant's expertise and interests. Teaching will involve responsibility for undergraduate and graduate teaching on conservation topics of broad interest and the role and management of plant diseases in forest and other wildland ecosystems. Applicant must have a Ph.D. in plant pathology with training/experience in forest pathology. Knowledge of forest management, silviculture, and forest ecology is desirable. Applicants should submit curriculum vitae, transcripts, publications, brief description of research goals, and names of three references to: **Steven E. Lindow, Search Committee Chair, Department of Environmental Science, Policy, and Management, 147 Hilgard Hall, University of California, Berkeley, CA 94720.** Deadline is March 1, 1994. *The University of California is an Equal Opportunity Employer.*

POSITIONS OPEN

Memphis State University Department of Biology FACULTY POSITION IN BIOCHEMISTRY

The Department of Biology, Division of Molecular Sciences and Microbiology invites applications for a tenure-track position in biochemistry. The appointment will be made at the rank of **ASSISTANT PROFESSOR**. Minimum qualifications are a Ph.D. degree and postdoctoral training. Applicants for this position are expected to have an academic and research concentration in an area of biochemistry with support training in chemistry, molecular biology and/or biology. Successful candidates will be expected to develop a strong graduate research program and to provide quality teaching to undergraduate and graduate students. Review of applicants will begin on March 1, 1994, and continue until the position is filled. Interested candidates should send curriculum vitae, statement of research plans, representative reprints and names of three references to: **Dr. T. Kent Gartner, Chair of Search Committee, Department of Biology, Memphis State University, 201 Life Sciences Building, Memphis, TN 38152.**

Memphis State University is an Equal Opportunity/Affirmative Action University.

ANATOMICAL SCIENCES. Full-time, **ASSISTANT PROFESSOR**, tenure-track position available July 1, 1994. Full-time is four days per week. Responsibilities include teaching gross anatomy and histology to undergraduate dental students, and development of an externally funded research program. The position requires the Ph.D. and/or D.D.S. degree. Investigators in bone biology, craniofacial development or biomechanics will receive first consideration; experience teaching dental students is desirable. *Equal Opportunity/Affirmative Action Employer; qualified females and minorities urged to apply.* Send application and curriculum vitae by March 15, 1994, to: **Dr. Dorothy Burk, Chair, Anatomy Department, School of Dentistry, University of the Pacific, 2155 Webster Street, San Francisco, CA 94115.**

ASSISTANT PROFESSOR of Biology (tenure-track) to begin August 25, 1994, contingent on funding. Teach undergraduate lecture and laboratory courses in Human Anatomy and Anatomy/Physiology. Interest and ability to teach Nutrition and/or Microbiology desirable. Teaching load is 12 credits per semester. Opportunity for some research involving undergraduates. Share departmental responsibilities with five full-time faculty. Required: Ph.D. in Biology with background in Human Biology; evidence of outstanding teaching ability, genuine interest in teaching and advising undergraduates; commitment to undergraduate laboratory instruction. Computer literacy expected and experience with computer interfaced experiments desirable. Salary and benefits competitive. Send letter of application (include position #FS8024), curriculum vitae with transcripts of all college work and three letters of recommendation to: **Chair, Biology Search Committee, Department of Biology, Adams State College, Alamosa, CO 81102.** *Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.*

BIOLOGY (Anatomy and Physiology and/or Microbiology) **AND CHEMISTRY** (Organic). Requires Master's degree with a major and/or 18 graduate hours in the teaching discipline from a regionally accredited institution. Teaching experience preferred. Send letter of interest, résumé and transcripts no later than 5:00 P.M. March 9, 1994, to:

**Collin County Community College
 Human Resources Office
 2800 East Spring Creek Parkway
 Plano, TX 75074**

Applications are solicited for a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** position. Preference will be given to funded investigators in the research fields of alcoholic liver injury, liver toxicology, macrophage metabolism and function, cytokines, or free radical injury. Send curriculum vitae to: **John J. Spitzer, M.D., Boyd Professor and Head, Department of Physiology, LSU Medical Center, 1901 Perdido Street, New Orleans, LA 70112.** *Louisiana State University Medical Center is an Affirmative Action/Equal Opportunity Employer.*

**MICHIGAN STATE UNIVERSITY
TWO TENURE-TRACK 12-MONTH POSITIONS
IN WILDLIFE**

Partnership for Ecosystem Research and Management (PERM) between Michigan State University (MSU) and Michigan Department of Natural Resources (MDNR) has established two tenure-track wildlife ecologist positions.

POSITION AG 1380 ASSISTANT PROFESSOR - TERRESTRIAL ECOSYSTEM ECOLOGIST. Preference will be given to applicants with a Ph.D. with strong quantitative skills and background in applied management-related research. Experience in quantitative methods for assessing effects of land use practices and management programs on wildlife populations and ecosystem processes is required. Experience with Geographic Information Systems is desirable. Major responsibilities include: conduct applied research in wildlife ecosystem ecology and management that interfaces ecological data with computer-based mapping systems and has implications for management of exploited, unexploited and protected species; develop and teach a graduate level course on application of geographic information systems to ecosystem ecology or a related topic.

POSITION AG 1381 ASSISTANT PROFESSOR - WILDLIFE SYSTEMS MODELER. Preference will be given to applicants with a Ph.D., strong quantitative skills, background in ecosystem modeling or systems science, and experience in applied management-related research. Experience in quantitative methods for applying systems modeling techniques to examine wildlife populations/communities and ecosystem processes is required. Major responsibilities include: conduct applied research in wildlife ecology that interfaces ecological data with systems science and modeling and has implications for management of exploited, unexploited and protected species; develop and teach a graduate level course on analysis and modeling of wildlife communities or a related topic.

The successful candidates will be expected to cooperate with MDNR in conducting research on management-related topics and in developing management policies and practices; participate in faculty committees, public service programs, and advising of graduate students; and work effectively with state, federal, and private organizations, obtain research grants, conduct research, and publish findings. Positions are available beginning JULY 1, 1994. Salary is competitive, commensurate with training, experience, and demonstrated ability.

Applicants should submit by MARCH 31, 1994, or until a suitable candidate is found, a letter of application indicating position desired and professional goals and objectives, curriculum vitae with supporting materials including transcripts, and three letters of reference to: Dr. R. Ben Peyton, Search Committee Chairperson, Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI 48824-1222; Telephone: (517) 353-3236. E-MAIL: 20570MGR@msu.edu FAX: (517) 336-1699.

MICHIGAN STATE UNIVERSITY is an equal opportunity/affirmative action employer. Minority and women candidates are encouraged to apply. Handicapped have the right to request and receive reasonable accommodation.

Research

**Program Officer
Food and Nutrition**

The Institute of Medicine of the National Academy of Sciences is seeking a Program Officer within its Food and Nutrition Board. Will assist Study Director to plan, organize, and manage committee development and meetings; maintain liaison with researchers, policy makers, institutions, and sponsors; plan study programs, design research approaches and methods, oversee/participate in data collection and analysis, and interpret research findings; support logistical planning, writing background papers, contributing to deliberations, and providing follow up preparations; perform literature searches, and write status reports, technical summaries, and interim/final project reports; oversee project staff; assist in identifying prospective committee members; monitor program expenditures; and be responsible for report production. Ph.D. or equivalent in a scientific or technical field, preferably biology, biochemistry, nutrition or a related field, and at least 1 to 2 years of directly related experience required, excellent oral and written skills, especially for preparing scientific and technical reports, research writing, briefing technical experts, and coordinating with research sponsors. Demonstrated laboratory or survey research experience, solid command of research methodology and statistics is required. Prior experience in relevant administrative areas, particularly supervision and budgeting, highly desirable. Please send resume in confidence to:

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R
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CIOM**

NRC/IOM, FO 3046
(BMM), 2101 Constitution
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DC 20418. EOE

Grants Available For Research On Ataxia Telangiectasia

The A-T Children's Project exists solely to support first-rate, international scientific research aimed at finding a cure and/or improving the lives of all children with Ataxia-telangiectasia.

Competitive awards are given to researchers for one- and two-year projects to be funded up to a maximum total direct cost of \$100,000 per year. No administrative overhead or fixed costs are supported. Quarterly grant awards are made through a careful and detailed, two-tiered, peer-review selection process.

The next deadline for submission of proposals is April 1, 1994, with decisions by June 1, 1994, and funds distributed by June 15, 1994. Interested researchers should write, call or FAX for information on grant proposal guidelines.



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♦ President: Brad Margus

♦ Scientific Director: David Cox, MD, PhD.

FUNDAMENTAL ISSUES IN VISION RESEARCH: MOLECULAR AND CELL BIOLOGICAL APPROACHES sponsored by the National Eye Institute, NIH

August 14 - 27, 1994

This laboratory/lecture course is intended for graduate students and postdoctoral fellows currently training in molecular biology, cell biology, and neurosciences who are **not** currently involved in vision research, and others in **early** stages of vision research who wish to broaden their interest in the field. Selected students in NEI-sponsored training grants who are now involved in research in related, but non-vision projects, may apply. Limited to 20 students. The goal of this course is to present, in depth, the exciting theoretical and experimental approaches to fundamental research problems in vision so that the students can evaluate the potential for active research in this field. The faculty will describe and direct laboratories of ongoing research in the tissues of the eye of invertebrates and vertebrates. Subjects will be presented in tutorial, lecture, seminar and laboratory formats, emphasizing close contact between students and faculty in each subject area. A typical day will include a tutorial describing a specific disease entity followed by lectures from basic scientists studying molecular and cellular biological problems in a tissue. Afternoons and evenings will be devoted to laboratory exercises or demonstrations and seminars.

Costs of attending the course, including travel, housing, and meals at the MBL will be supported by a fellowship fund from NEI.

Director: David S. Papermaster, University of Texas Health Science Center, San Antonio. **Associate Directors:** David C. Beebe, Uniformed Services School of Medicine; John E. Dowling, Harvard University; Joram Platigorsky, National Eye Institute; and Elio Raviola, Harvard Medical School.

Application Deadline: April 15 (Early admission is possible for outstanding candidates whose applications are received prior to the April 15 deadline).

For application forms contact: Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543; (508) 548-3705, ext 401; Internet: admissions@mbi.edu.

**MARINE BIOLOGICAL
LABORATORY**

1994 Educational Programs

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R esearch Scientist Opportunities

Osteoporosis

PhD Scientist—Exciting career opportunity for a PhD Research Scientist to establish and maintain a cell biology laboratory for drug discovery in osteoporosis. Requires in-depth understanding of interaction between bone marrow and bone in health and disease. In this position, you will establish *in vitro* models for bone marrow differentiation and the role of cell/cell communication. Additionally, will establish, characterize and immortalize primary bone cell cultures and gene expression characterization and quantitation. Qualifications include a PhD in Cell Biology/Molecular Biology plus two years post-doctoral training; specialization in hematopoiesis and cell differentiation of the marrow compartment and the role of steroid hormones. Experience preferred in hematopoietic cell culture techniques, fluorescent-activated cell sorting, effects of steroid on hematopoiesis, hormonal regulation of hematopoiesis, stem cell characterization, megakaryocytopoiesis, and bone marrow co-culture assays.

BS/MS Scientists—Be an integral part of our Osteoporosis Group involved with *in vitro* and *in vivo* models of hormone secretion and in the collection of bone marrow samples. The selected candidates must possess a BS/MS in the biological sciences or the equivalent and have laboratory experience. Must have proven experience in performing cell culture techniques (including bone marrow co-culture assays), ELISA, RIA (including GH, CAMP, IGFI, and PTH), radioisotope handling and counting, receptor binding studies, HPLC, establishment of primary cell cultures, and maintaining, feeding and passaging of cell lines.

Hybridoma Technology

BS/MS Scientist—We are seeking a hybridoma specialist with at least 4 years experience generating monoclonal antibodies for our newly-equipped antibody facility. Experience in immunization protocols, cell fusions, media formulations and screening techniques is required. Additional experience in antibody purification, affinity constant determination and antigen preparation would be advantageous.

Cancer

BS/MS Lab Assistants—We currently have two assistant positions available in our Cancer group. Candidates should be skilled in molecular biology as well as in protein biochemistry techniques, with at least 1+ years experience. Familiarity with tissue culture techniques also desirable.

We offer competitive salaries and flexible benefits package including medical and dental insurance, paid holidays and vacation, educational assistance, savings and investment plan, pension plan, relocation assistance and more. To learn how you can be part of the future of Pfizer, send your resume, including a list of three references, to: **Ms. Lynn Beaulieu, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340.** We are an equal opportunity employer.



Central Research

POSITIONS OPEN

FACULTY POSITION IN MOLECULAR PHARMACOLOGY UNIVERSITY OF SOUTHERN CALIFORNIA SCHOOL OF PHARMACY

A tenure-track ASSISTANT/ASSOCIATE PROFESSOR position exists in the Department of Molecular Pharmacology and Toxicology. Applicants must have a Ph.D. or equivalent degree and at least two years of postdoctoral research experience. Applicants with a Ph.D. in Pharmacology will be given preference. Individuals with training or interests in pharmacology of signal transduction mechanisms, growth factors, cytokines, molecular bases of neurological disorders and regulation of gene expression are encouraged to apply. A strong commitment to teaching in the Graduate and Professional (Pharm.D.) Program is essential. Applications accepted until positions filled. Applicants should send curriculum vitae, a brief description of current and future research directions and names of three references to:

Dr. Timothy Chan, Chairman
Department of Molecular Pharmacology
and Toxicology
USC School of Pharmacy
1985 Zonal Avenue
Los Angeles, CA 90033
Equal Opportunity Employer, M/F/H.

The Department of Pediatrics, Wright State University School of Medicine, and the Children's Medical Center, Dayton, Ohio, seek a third gastroenterologist in the Division of Gastroenterology and Nutrition. This is a full-time faculty position at the ASSISTANT or ASSOCIATE PROFESSOR level. Applicants must be Board eligible or Board certified in pediatric gastroenterology and licensable to practice medicine in Ohio. The candidate should have a record of academic success and be capable of independent research. In this activity the candidate will have protected time. The Division of Gastroenterology and Nutrition is rapidly growing with a new 750-square foot research lab located within our 155-bed pediatric hospital. Funding is available for basic or clinical research activities. Salary commensurate with professional experience. Qualified candidates should contact: **Dr. Adam G. Mezo, Director, Division of Gastroenterology & Nutrition, Department of Pediatrics, The Children's Medical Center, One Children's Plaza, Dayton, OH 45404-1815.** *Wright State University School of Medicine and the Children's Medical Center are Equal Employment Opportunity/Affirmative Action Employers.* Closing date for receipt of applications is May 31, 1994; first consideration of applications will be February 17, 1994, but will continue until the position is filled.

The Center for Tropical Diseases of the University of Texas Medical Branch (UTMB) at Galveston invites applications for a rewarding tenure-track FACULTY POSITION in research. Applicants should have a Ph.D. or M.D. degree and a minimum of two years of postdoctoral research experience. A number of positions are being established ranging in faculty rank from Assistant Professor to full Professor. The department is seeking individuals with a strong record of scientific achievement. Preference will be given to applicants who are using modern approaches to the study of bacterial pathogenesis, but other disciplines such as virology and cellular immunology will also be considered. Expertise in the areas of molecular biology and/or biochemistry are essential. Duties will include developing and maintaining a strong, independent research program, interacting with other faculty investigating the pathobiology and immunobiology of infectious diseases, seeking extramural funding, and participating in medical and graduate education. UTMB employees more than 9,100 people and consists of four schools, seven hospitals and two research institutes. The Center for Tropical Diseases, under the auspices of the Department of Pathology, includes both clinical and basic scientists. Interested applicants should send detailed curriculum vitae, an outline of current and future research interests, recent reprints, and three letters of reference to: **David H. Walker, M.D., Director, Center for Tropical Diseases, The University of Texas Medical Branch, 301 University Boulevard, Galveston, TX 77555-0609.** *UTMB is an Equal Opportunity/Affirmative Action Employer M/F/D/V. UTMB is a smoke-free/drug-free work place. UTMB hires only individuals authorized to work in the United States.*

POSITIONS OPEN

ASSISTANT PROFESSOR— DEVELOPMENTAL GENETICS

The Department of Biology at Wake Forest University announces a tenure-track position in DEVELOPMENTAL GENETICS. We especially invite applications from minority and women candidates. Qualifications include a Ph.D. with training and experience in developmental genetics and a broad perspective on the field. Preference will be given to candidates using any eukaryotic system to study the timing and location of gene action, evolutionary aspects of the genetics of development, sensory biology or parasitology. The successful candidate is expected to establish a strong research program, to develop courses in such areas as genetics, development and the candidate's specialty, and to participate in the training of master's and doctoral students. Because we are concerned with excellence in teaching as well as in research, please send a statement of teaching interests and experience as well as a statement of research interests, together with curriculum vitae, and have three letters of recommendation sent to: **Dr. James F. Curran, Chair of the Search Committee, Biology Department, Wake Forest University, Winston-Salem, NC 27109.** To be considered, applications and supporting materials must be received by February 25, 1994. *Wake Forest University is an Equal Opportunity Employer.*

A tenure-track faculty position at the ASSISTANT PROFESSOR level for a Ph.D./M.D. in molecular biology. The successful candidate will conduct research in the mutational analysis of genes involved in the development of aerodigestive tract cancers and in molecular epidemiology, and will be expected to compete successfully for peer-reviewed grants as a part of the cancer program of The Ohio State University Comprehensive Cancer Center. Successful candidates will also participate actively in the graduate program of the Department of Preventive Medicine of the College of Medicine. Interested candidates should send curriculum vitae and three references to: **Randall E. Harris, M.D., Ph.D., Professor and Chairman, Department of Preventive Medicine, The Ohio State University, B-107 Starling Loving Hall, 320 W. 10th Avenue, Columbus, OH 43210.** *An Equal Opportunity Employer.*

ENDOWED PROFESSORSHIP X-RAY CRYSTALLOGRAPHY TEXAS A&M UNIVERSITY

The Department of Biochemistry and Biophysics is seeking applications and nominations for the position of PROFESSOR and holder of the R. J. Wolfe-Welch Chair in Science. Applicants should have a Ph.D. and a record of significant research accomplishments, supported by competitive funding, in the area of X-ray crystallography.

Applicants should send curriculum vitae, list of publications, a brief description of current and future research directions, and have 3 letters of reference sent to: **Dr. Thomas O. Baldwin, Department of Biochemistry and Biophysics, Texas A&M University, College Station, TX 77843-2128.**

The Texas A&M University System is an Affirmative Action/Equal Opportunity Employer.

DEPARTMENT OF PHARMACOLOGY THE OHIO STATE UNIVERSITY

COLLEGE OF MEDICINE. Applications are invited for an ASSISTANT, ASSOCIATE, or FULL PROFESSOR, tenure-track or tenured faculty position. Candidates with expertise in any area of pharmacology will be considered. Outstanding individuals with an active, NIH-funded research program are being sought. The successful candidate is expected to continue to expand his/her research program and to be involved with the teaching and training of medical and graduate students. Applicants, Ph.D. and/or M.D., should send curriculum vitae, statement of research and teaching interests and experience, and the names of three references to: **Dr. Andrej Rotter, Chair, Search Committee, Department of Pharmacology, The Ohio State University College of Medicine, 5136 Graves Hall, 333 West Tenth Avenue, Columbus, OH 43210-1239.** Review of applications will begin February 1, 1994, and will continue until the position is filled.

The Ohio State University is an Affirmative Action/Equal Employment Opportunity Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans and the disabled are encouraged to apply.

POSITIONS OPEN

RESEARCH PROFESSOR OF PHARMACEUTICAL SCIENCES—To develop international program of plant collection, identification and taxonomic verification in support of the natural products discovery and development program of the Research Institute of Pharmaceutical Sciences. The plant collection program is expected to be nationally and internationally competitive and significantly supported by extramural funds.

Qualifications: Ph.D. in Botany or Biological Sciences with emphasis in plant systematics. Established national and international visibility and demonstrated record of competitive extramural funding. Management experience at a national herbarium or botanical garden and demonstrated capability to organize, manage, and curate botanical holdings. Familiarity with national and international procedures and protocols for obtaining plant collection permits. Salary range—competitive. Deadline for applications: March 4, 1994. Anticipated starting date—April to May 1994. *The University of Mississippi is an Affirmative Action/Americans with Disabilities Act/Equal Employment Opportunity Employer.*

Send résumé and reprints to:

Administrative Manager
School of Pharmacy Business Offices
School of Pharmacy/
Research Institute of Pharmaceutical Sciences
206W Faser Hall
University of Mississippi
University, MS 38677

EASTERN MONTANA COLLEGE Billings, MT

The Department of Biological Sciences at Eastern Montana College is searching for two ASSISTANT/ASSOCIATE PROFESSORS. Both are one-year, fixed-term positions (contingent on funding) to begin August 15, 1994. One will teach Anatomy and Physiology to allied health science majors, General Biology to non-science-majors, and a specialty course in the incumbent's area of expertise, but preferably Comparative Animal Physiology. The second will teach Cell and Molecular Biology to biology majors, General Biology to non-science-majors, and a specialty course in the incumbent's area of expertise, but preferably modern Developmental Biology. These individuals will play an important role in the department's educational mission in the area of allied health sciences. Both positions require appropriate terminal degree. A commitment to quality undergraduate education and academic rigor are expected. Review of applications to begin March 1, 1994. Send cover letter with statement of teaching philosophy and research interests, curriculum vitae, copies of transcripts and three letters of recommendation to: **Chair, Search #94-11, Anatomy/Physiology Screening Committee or Search #94-12, Molecular/Cellular Screening Committee, Eastern Montana College, Human Resources Office, 1500 North 30th Street, Billings, MT 59101-0298. Telephone: (406) 657-2278.** *Affirmative Action/ADA/Equal Opportunity Employer.*

PLANT BIOLOGIST. The Department of Biology, University of Minnesota, Duluth, seeks applicants for a tenure-track ASSISTANT PROFESSOR position to begin in fall 1994. Individuals with exceptional experience and qualifications, including a record of funded research activity, may be considered at the rank of non-tenured associate professor. Responsibilities include contributing to the undergraduate and graduate (M.S.) missions of the department, and developing an active research program. The expertise and area of research interest appropriate for the position include one or more of the following: morphological, systematic, evolutionary, or ecological studies involving fungi, bryophytes, or vascular plants. Teaching responsibilities include introductory biology, plant diversity, and course(s) in area of specialty. The person appointed must hold the Ph.D. by September 1, 1994. Applicants will be evaluated on the basis of potential for teaching and research, academic background, experience, specialty area. *The department is interested in adding diversity to the faculty.* All application materials must be postmarked by March 1, 1994. Applicants should submit curriculum vitae, statement of professional goals, selected reprints, copies of all undergraduate and graduate transcripts, and arrange for three letters of recommendation that address teaching and research potential to: **Chair, Botany Search Committee, 211 Life Science Building, University of Minnesota, Duluth, MN 55812.** *The University of Minnesota is an Equal Opportunity Educator and Employer.*

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

In 1991, The Aaron Diamond Foundation will support 25 postdoctoral research fellowships—to encourage excellence in research addressing the problems of **AIDS and drug abuse** and to increase the number of **biomedical and social scientists** working in **New York City** on these problems. The fellowship program is administered by the New York State Health Research Council, aided by a panel of distinguished scientists comprising the Fellowship Selection Committee.

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

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

Preference is given to: (1) those with doctoral degrees awarded after 1987 (generally MDs must have completed their residency, while applicants with non-medical degrees may initiate the fellowship immediately after graduation); (2) applicants early in their careers, with three or fewer years of postdoctoral research experience; (3) those who are relocating to New York City; and (4) U.S. citizens or permanent residents. Women and members of minority groups are especially encouraged to apply.

APPLICATION DEADLINE: JULY 29, 1994

FURTHER INFORMATION:

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



DIRECTOR, PRECLINICAL BIOLOGY

This position will be responsible for managing a group of up to twenty (20) scientists with broad levels of experience and for successfully directing schedule driven research projects for determining the *in vivo* and *in vitro* function and therapeutic potential of gene medicines designed for the treatment of muscle wasting (cachexia), peripheral neuropathies, osteoporosis, hemophilia B, and other human diseases.

The successful candidate will have 7-10 years of experience in the development and characterization of biological models, preferably within a pharmaceutical or established biotechnology company, and a Ph.D., M.D., or D.V.M. with training in Molecular/Cell Biology, Pharmacology, Physiology or related field. Candidates should have a proven track record in the biological and pharmacological profiling of therapeutic agents and biotechnological products as demonstrated through publications and/or product development. Candidates should also have outstanding interpersonal skills and the ability to lead a research team working on multiple projects and clinical targets.

GENEMEDICINE, INC. is an emerging, new company developing controllable *in vivo* gene therapies. The company is backed by several of the most successful venture capital investors in biotechnology, has strong ties to the laboratories of its scientific founders at Baylor College of Medicine, and is located close to the Texas Medical Center -- the world's largest medical research facility. We are assembling teams of bright and highly motivated professionals to pioneer our scientific and clinical programs. We offer a highly competitive compensation package. For confidential consideration, please send your CV to: GENEMEDICINE, INC., Human Resources, Dept. FL, 8080 North Stadium Drive, Suite 2100, Houston, TX 77054

GENEMEDICINE, INC.

Roche

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POSTDOCTORAL OPPORTUNITIES

Hoffmann-La Roche is world renowned by the scientific community for its outstanding contributions to medical science. Our pharmaceutical and biomedical research teams have created a research-intensive environment where professionals excel.

We are currently seeking recent Ph.D. Scientists to join our Preclinical Research organization for one-three year appointments. Immediate opportunities exist in the following areas:

BRONCHOPULMONARY

Research focuses on the identification of mechanisms of signal transduction following the aggregation of IgE receptors on mast cells and basophils. Studies include the characterization of novel receptor associated proteins, phospholipase A2 and phospholipase D, and their role during signal transduction. Requires a Ph.D. in Biochemistry, Molecular Biology, Cell Biology or Immunology. *Please refer to position JK*

METABOLIC DISEASES

Research on Type II diabetes and obesity. Studies include the investigation of insulin receptor signalling pathways and the identification and characterization of novel proteins involved in the signalling cascade. Requires a Ph.D. in Molecular Biology, Biochemistry or related disciplines. *Please refer to position PB*

STRUCTURE/FUNCTION STUDIES OF CYTOKINE RECEPTORS

Participate in a cross-disciplinary project which involves the production of novel forms of cytokine receptors for structural studies. Activities will include the engineering, expression, purification and biochemical characterization of receptor fragments that retain the capacity for ligand binding. Requires a Ph.D. in Molecular Biology, Biochemistry, or related discipline. *Please refer to position RP*

Roche is located in an attractive suburban community just 10 miles west of New York City's cultural and intellectual centers. We offer a highly competitive salary and benefit package and a multidisciplinary environment that stimulates personal and professional growth. Publications are encouraged.

For consideration, please send your curriculum vitae, the names of three references, and your position code preference, to: **Mr. R.H. Stevenson, Assistant Director, Preclinical Research, Hoffmann-La Roche Inc., Nutley, New Jersey 07110-1199.** We are an equal opportunity employer.

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POSITIONS OPEN

ECOLOGISTS

The newly organized Division of Ecology and Organismal Biology in the Department of Biology at Memphis State University invites applications for two tenure-track positions (ASSISTANT/ASSOCIATE PROFESSOR) in ecology. The Department offers M.S. and Ph.D. degrees, and the new Division has 15 faculty with research and teaching facilities both on the main campus and at two sites off campus.

The successful candidates will be expected to develop strong extramurally funded programs in an area of ecology. Applicants at the more senior level should have an established record of scientific publications and externally funded research. Special preference will be given applicants who study wetland systems including forested and urban wetlands and with emphasis on population, community, or landscape ecology. Applicants in other areas of ecology are encouraged to apply. Teaching duties will include graduate specialty courses and participation in the general biology program. One of the two successful candidates will develop a core course in general ecology for majors. Ph.D. degree required and postdoctoral experience preferred.

Send curriculum vitae, statement of research and teaching interests, a maximum of five reprints, and three letters of reference to: J. F. Payne, Ecology Search Committee, Division of Ecology and Organismal Biology, Department of Biology, Memphis State University, Memphis, TN 38152. Evaluation of applications will begin 21 March 1994 and continue until the positions are filled.

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

FACULTY POSITIONS

The Department of Pharmacological and Pharmaceutical Sciences at the University of Houston has two (2) senior tenure-track positions available. Applicants should possess a Ph.D. in pharmacology or a related discipline, a recognized, funded research program, and the ability to establish collaborative research with scientists/clinicians at the Texas Medical Center. Priority will be given to candidates with expertise in drug delivery/targeting or pharmacodynamics/pharmacokinetics in geriatrics. Duties include maintenance of a strong extramurally funded research program and teaching in graduate and professional programs. Salary and rank will be commensurate with qualifications. Applicants should send a cover letter with career and research goals, 3 references plus current curriculum vitae to: Dr. Douglas C. Eikenburg, Chair, Search Committee, Department of Pharmacological and Pharmaceutical Sciences, University of Houston, Houston, TX 77204-5515. Review of applications will begin on March 15, 1994, and continue until the positions are filled. *The University of Houston is an Equal Opportunity/Affirmative Action Employer. Minorities, women, veterans and persons with disabilities are encouraged to apply.*

UNIVERSITY OF THE VIRGIN ISLANDS ST. THOMAS

Candidates are invited to apply for the position of VISITING ASSISTANT PROFESSOR OF MARINE BIOLOGY. A Ph.D. in Biology or Marine Biology and college level teaching experience required. Field experience in the tropics preferred. Must be able to work with people of diverse educational and cultural backgrounds. The successful appointee will teach ecology, population biology and non-major biology courses. Preference will be given to candidates with interest in teaching and research in the fields of aquatic plant biology or ichthyology. Additionally, the appointee will be expected to carry out other normal faculty responsibilities including committee assignments and student advisement. The salary for this faculty position ranges from \$30,679 to \$42,468 for the academic year depending upon qualifications and experience. Applications accepted until March 15, 1994, and the appointee will be expected to start on August 15, 1994. A letter of application, up-to-date résumé, official college transcripts, and three letters of recommendation should be addressed to: Dr. Denis Paul, Vice President for Academic Affairs, University of the Virgin Islands, No 2. John Brewers Bay, Charlotte Amalie, VI 00802-9990.

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

POSITIONS OPEN

INTEGRATIVE PHYSIOLOGY POSITIONS

The Department of Physiology of the University of South Alabama College of Medicine invites applications for two tenure-track positions, one SENIOR and another at the ASSISTANT PROFESSOR level. Individuals are sought who can interact productively in an Integrative Physiology department that evaluates function at biochemical, cellular, and organ levels. These faculty will be expected to teach physiology to both medical and graduate students and develop their own research program in Integrative Physiology. Submit curriculum vitae, including grant funding and teaching experience, and three letters of recommendation to: Dr. Aubrey E. Taylor, Chairman, Department of Physiology, MSB 3024, University of South Alabama, Mobile, Alabama 36688-0002 by March 31, 1994.

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

ASSISTANT PROFESSOR OF BIOLOGY (TWO POSITIONS). Tenure-track; begin 15 August 1994. (Subject to funding). Ph.D. in relevant field. Prefer teaching experience, ability to interact and communicate well, acquire grant funding, and publish. Both teach introductory biology. 1. BIODIVERSITY (e.g. ecology, taxonomy, or biogeography): also teaches courses in biodiversity, GIS, and expertise area. 2. ANIMAL PHYSIOLOGY: also teaches courses in anatomy and physiology/animal physiology. Send letter with goals, curriculum vitae, and list of 5 references by 15 March 1994 to: Dr. J. R. Choate, Biodiversity Search, or Dr. T. L. Wenke, Physiology Search, Fort Hays State University, 600 Park, Hays, KS 67601; Telephone: 913-628-4214; FAX: 913-628-4290. *Affirmative Action/Equal Opportunity Employer: Women/Minorities/Disabled/Veterans encouraged.*

OPTICS/RESEARCH FACULTY POSITION

The New England College of Optometry is seeking applications for a full-time, tenure-track ASSISTANT or ASSOCIATE PROFESSOR. The candidate must have a Ph.D. and a record of research grant funding. Teaching includes geometric and physical optics with emphasis on ophthalmic applications. Teaching excellence is required. Responsibilities include conducting research and obtaining external funding. Salary/Rank are negotiable. Applicants should submit a letter of application, curriculum vitae, a concise description of research interests and goals, and three professional references to: James Comerford, Ph.D., O.D., Chair, Department of Vision Science, The New England College of Optometry, 424 Beacon Street, Boston, MA 02115. *An Equal Opportunity/Affirmative Action Employer.*

BIOLOGY, ASSISTANT PROFESSOR. The Department of Biological Sciences at Louisiana State University (LSU-Shreveport) seeks a biologist to fill a tenure-track position at the level of Assistant Professor beginning in the fall of 1994. Broad background in biology with training in molecular biology preferable. Ph.D. required. Responsibilities will include the coordination and teaching of freshman major and non-major lecture and laboratory courses and developing a research program in which both graduate and undergraduate students can participate. Send curriculum vitae, statement of research and teaching interests, and the names of three references to: Dr. Cran Lucas, Chair, Biology Search Committee, LSU-Shreveport, One University Place, Shreveport, LA 71115. *LSU-Shreveport is an Affirmative Action/Equal Opportunity University. Minorities and women are encouraged to apply.*

PROFESSOR AND DIRECTOR INSTITUTE OF MATERIALS SCIENCE

The University of Connecticut anticipates a tenure-track, full professor faculty position for the Director, Institute of Materials Science. **Requirements:** broad view of materials and their application; distinguished record of materials research; and demonstrated ability to manage multidisciplinary research center. Send letters of application, with curriculum vitae and at least three references to: Dr. Harold Brody, Chair, IMS Director Search Committee, University of Connecticut, U-237, Storrs, CT 06269-3237. Screening will begin immediately and continue until the position is filled. *We encourage applications from underrepresented groups, including minorities, women and people with disabilities. (Search #4A202B)*

POSITIONS OPEN

ASSOCIATE CHIEF OF STAFF (ACOS) FOR RESEARCH

DVA MEDICAL CENTER (VAMC) NEWINGTON (HARTFORD), CONNECTICUT

Consistent with expansion and implementation of new research initiatives at the University of Connecticut Health Center (UCHC), we are seeking an individual who will be responsible for leadership and coordination of all research programs at the VAMC. The candidate must qualify for a faculty position at UCHC in neighboring Farmington where he/she will be an associate/full professor. Active research in area of personal interest is expected with the candidate's research focus open; however, a commitment to primary care for an aging population of U.S. veterans directs our attention towards individuals with experience in research areas related to gerontology, including but not limited to research in neurodegenerative, oncologic, osteoarthritic, and related disorders. Those with expertise in molecular neurobiology, immunology, or genetics are encouraged. *The Newington DVA Medical Center and The University of Connecticut Health Center are Equal Opportunity Employers and encourage applications from protected and minority groups.* Please send a letter with description of research interests, your curriculum vitae, and name of three references to: Dr. Richard Berlin, Associate Dean for Research Planning and Coordination, Chair of ACOS/R Search Committee, Medical Dean's Office, University of Connecticut School of Medicine, 263 Farmington Avenue, Farmington, CT 06030-1915 no later than March 4, 1994.

CHAIRPERSON OF NEUROLOGY MEDICAL COLLEGE OF OHIO

The Medical College of Ohio invites nominations and applications for the position of CHAIRPERSON for the Department of Neurology. Applicants must be board-certified in Neurology and must be qualified for a senior academic appointment. This is an excellent professional opportunity for an individual with substantial expertise in research, education, and clinical neurology. The successful applicant will help develop the Department to serve Northwest Ohio and the city of Toledo as a regional resource for state-of-the-art neurological practice. He or she should have existing research programs, or the demonstrated potential to obtain extramural funding for research. The Medical College is committed to supporting both the clinical and research activities of the Department of Neurology. Applications with curriculum vitae, and nominations, may be submitted for confidential review by the Search Committee to: Dr. Robert W. Rhoades, Search Committee Chairman, Neurology, Medical College of Ohio, P.O. Box 10008, Toledo, OH 43699. *Equal Opportunity Employer.* Review of credentials will begin May 1, 1994, and continue until the position is filled.

MOLECULAR BIOLOGY SOFTWARE SUPPORT

A new computer support center at the University of Virginia, Information Technology and Communication—Academic Computing Health Sciences (ITC-ACHS), invites applications for a PROFESSIONAL FACULTY (Instructor, non-tenure-track) position to provide user support for molecular biology computing problems. Individuals with backgrounds in biological sequence analysis, genetic and other biological databases, and molecular evolution with training at the M.S. or Ph.D. level are encouraged to apply. The individual will collaborate with faculty on sequence analysis projects including gene identification and phylogenetic analyses and participate in graduate courses on sequence analysis and molecular evolution. In addition, he/she will work with other ITC-ACHS staff to maintain biological sequence and genetic databases and to evaluate, install and customize sequence analysis packages and other programs for accessing biological databases. ITC-ACHS is a new facility in the University of Virginia Health Sciences Center that focuses on advanced support for research computing in the areas of molecular biology, data acquisition, data visualization, and health informatics. Send a complete curriculum vitae, representative publications, and three letters of reference to: William R. Pearson, Department of Biochemistry, Box 440 Jordan Hall, University of Virginia, Charlottesville, VA 22908. FAX: (804) 924-5069; E-mail: wrp@virginia.EDU. Review of applications will begin March 1, 1994; applications will be accepted until the position is filled. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

THE SAMUEL ROBERTS NOBLE FOUNDATION
Postdoctoral Positions:
Molecular Plant-Microbe Interactions

(1) **Dr. Maria J. Harrison**, molecular and genetic analysis of mycorrhizal symbiosis. Project involves isolation of mutants of *Medicago truncatula* compromised in establishment and maintenance of the symbiotic association. Experience in molecular biology and genetic analysis essential. (2) **Dr. Nancy L. Paiva**, alteration of secondary metabolism in alfalfa. A major responsibility will be to purify and clone an isoflavonoid prenyltransferase for use in the genetic manipulation of phytoalexin structures. Experience in enzyme purification is essential and familiarity with phytochemical analysis and molecular biology techniques desirable. (3) **Dr. Madan K. Bhattacharyya**, resistance gene cloning. The project involves genetic and physical mapping of the soybean Rps1 fungal resistance gene, library construction and chromosome walking. An understanding of genetic principles and experience with molecular techniques is essential. (4) **Dr. Richard A. Dixon**, genetic manipulation of lignin. The project involves phytochemical analysis, including ¹³C-NMR, of modified lignins produced by genetic engineering, and production of further modified transgenic lines of tobacco and alfalfa. Experience in analytical phytochemistry essential, molecular expertise desirable. Applicants must be highly motivated with a strong publication record and excellent communication skills. Please send CV, statement of research interest and three letters of recommendation to the appropriate person at **Plant Biology Division, Samuel Roberts Noble Foundation, P.O. Box 2180, Ardmore, OK 73402**, phone (405) 223-5810, FAX (405) 221-7380. *The Noble Foundation is an equal opportunity employer.*

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and neurological
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We are currently seeking a creative articulate hands-on research leader who is capable and motivated to help build a successful drug discovery program.

The individual we seek will have a Ph.D. and/or M.D. in a biological, chemical, or medically related discipline such as molecular or cell biology, biochemistry or enzymology. A minimum of 10 years of experience in the management of multi-disciplined research and development functions mandatory. A solid understanding of research strategy and drug discovery process essential. A track record that includes successful management of research programs resulting in products taken to the IND stage is preferred.

We offer competitive salaries and benefits. Send CV to **HR Department, VP Search, Cadus Pharmaceutical Corporation, 180 Varick St., 9th Floor, New York, New York 10014.**

Cadus is an equal opportunity employer.

NRC-CNRC

*NRC is Canada's principal science and engineering organization. We work with industry partners to improve Canada's competitiveness. Currently, the **Institute for Biological Sciences (IBS)** is looking for an energetic person who will provide the leadership required to further enhance our record of excellence.*

Research Officer

Ottawa, Ontario

Your Challenge

Within the Cellular Neurobiology Group, you will develop and carry out advanced research in specified aspects of neurobiology. You will be responsible for leading and participating in research projects related to cell signalling in normal and abnormal cell physiology and pathology.

Your Credentials

PhD in either neurobiology, neurochemistry, neuropharmacology or related disciplines. Expertise in the use of molecular/biochemical approaches to study signal transduction mechanisms. Expertise in the use of animal and/or cultured cell models to study the role of cell-signalling pathways in neurologically related diseases. An internationally competitive track record in neurological research. Preference will be given to individuals with an established research program of demonstrated interest to the pharmaceutical/diagnostic industrial sectors. In accordance with Canadian immigration policies, preference will be given to Canadian citizens and permanent residents of Canada. A security screening will be required.

Salary Range: Commensurate with qualifications.

To explore this opportunity, send your resume before February 11, 1994, indicating **reference number BS-93-15-SC, to: The Recruitment and Staffing Section, National Research Council Canada, Ottawa, Ontario K1A 0R6.**

NRC is an equal opportunity employer.

Vous pouvez obtenir ces renseignements en français.



National Research Council Canada
Conseil national de recherches Canada

Canada

POSITIONS OPEN

The University of Ottawa is expanding its research activity in the field of molecular neuroscience to be housed in a new Institute. Applications are invited at the **ASSISTANT/ASSOCIATE PROFESSOR** level. The successful applicants will use molecular biology techniques to investigate the mechanisms relevant to neuronal cell death and neurodegeneration as well as those that promote neuronal survival. Candidates must have a proven record of research productivity and potential to support their own research, but set-up funds are available. Applicants should submit curriculum vitae and a summary of their research interest as well as future plans. *In accordance with Canadian immigration requirements, this advertisement is directed primarily to Canadian citizens and permanent residents.* Ottawa is an attractive city that offers excellent cultural activities, schools and recreational facilities. Please send application to: **Dr. A. Hakim, University of Ottawa, Neuroscience Research Institute, 451 Smyth Road, Ottawa, Ontario CANADA K1H 8M5.**

DIRECTOR

DIRECTOR, Natural History Museum, University of Kansas, Lawrence. We seek a Director who will promote the role of the Museum in systematic and evolutionary biology and continue the Museum's excellence in collections, research, and public education. A terminal degree and eligibility for tenure as professor and an aptitude for management of financial resources and personnel are required. Preferred qualifications include successful administrative experience in a doctoral-degree-granting institution, university museum, or other natural history museum, and a demonstrated knowledge of museum operations.

For a complete position description contact: **Chair, Search Committee, Research, Graduate Studies, and Public Service, University of Kansas, 222 Strong Hall, Lawrence, Kansas 66045, Telephone: 913-864-3301.** All inquiries and applicants will be held in confidence. Applications will be accepted until the position is filled. Review of applicants will begin March 15, 1994. *Affirmative Action/Equal Opportunity Employer.*

The North American Lake Management Society is seeking an **EXECUTIVE DIRECTOR** to guide the Society in the achievement of its mission, "To forge partnerships among citizens, scientists and professionals to foster the management and protection of lakes and reservoirs for today and tomorrow." Qualified candidates will be highly motivated individuals with exceptional managerial and leadership skills, demonstrated fundraising ability, and experience working with non-profit groups, volunteers and diverse constituencies. For full consideration, submit résumé, salary history and a narrative describing qualifications relative to this position by **April 1, 1994**, to: **NALMS, ED Search Committee, One Progress Boulevard, Box 27, Alachua, FL 32615-9536.** For inquiries contact NALMS at (904) 462-2554.

FACULTY POSITIONS IN BIOLOGY AND ENVIRONMENTAL SCIENCE

The Department of Biological Sciences is seeking to fill three faculty positions to support teaching and research efforts of the Texas Regional Institute for Environmental Studies (TRIES). TRIES is a research consortium, headquartered on campus, directed toward a broad range of environmental problems. Ph.D., university teaching experience and significant evidence of research potential are required for tenure-track positions. (1) **Assistant Professor**, tenure-track, Plant Taxonomy/Ecology. Duties include TRIES research and teaching plant taxonomy and ecology. (2) **Assistant Professor**, tenure-track, Microbiology/Bioremediation. Duties include TRIES research and teaching microbiology and introductory biology or environmental science. (3) **Lecturer**, temporary nine-month position, renewable, to teach introductory biology or environmental science and advanced specialty course. Candidates should send curriculum vitae, statements of research interest and teaching philosophy, and have three letters of recommendation sent by March 1, 1994, to: **Dr. Andrew Dewees, Chair, Department of Biological Sciences, Sam Houston State University, Huntsville, TX 77341.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN



Chair Department of Pharmacology

The School of Medicine at Wayne State University is inviting applications and nominations for the position of **CHAIR OF THE DEPARTMENT OF PHARMACOLOGY**. This position will be available in July 1994. The Chair will be responsible for the overall administration of the department which has nineteen faculty positions and will be expected to provide scientific leadership within the School in an interdisciplinary fashion.

Applicants are requested to submit a statement of interest, a curriculum vitae and a brief list of references. All correspondence should be directed to:

George Dambach, Ph.D.
Associate Dean for Research and Graduate Programs
School of Medicine
Wayne State University
540 E. Canfield, 1261 Scott Hall
Detroit, MI 48201
Telephone: (313) 577-1455
FAX: (313) 577-8777

The School of Forestry at Auburn University is soliciting applications for a faculty position in landscape, ecosystems, or community ecology. This is a 12-month, tenure-track position with responsibilities in teaching and research. Applicants must hold a Ph.D. in forest ecology or a closely related field. Experience in studying hydrologic linkages among natural forest ecosystems and/or relationships between community and ecosystem processes at the landscape level is preferred. Quantitative skills such as spatial statistics and GIS are highly desirable. Preference will be given to candidates with experience in acquiring extramural funding and a demonstrated ability to publish in refereed journals. Closing date: May 1, 1994, or until a qualified applicant is identified. For information, contact **Dr. Graeme Lockaby** at (205) 844-1054. To apply, submit a letter of application, curriculum vitae, official transcripts, and the names of three references to: **Ms. Lenore Martin, School of Forestry, Auburn University, AL 36849-5418.** *Auburn University is an Equal Opportunity/Affirmative Action Employer; applications from minorities and women are encouraged.*

Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia, invites applications for the following position: **DIRECTOR**, National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP). The director, NCCDPHP, directs a comprehensive program for the prevention of premature death and disability due to chronic illnesses and conditions and promotes the overall health of the population. NCCDPHP has approximately 750 employees in disciplines such as medicine, demography, health education, behavioral science, nutrition, and epidemiology in Atlanta, the District of Columbia, and in assignments with state and local health departments. The multifaceted programs of NCCDPHP include prevention of tobacco use, nutrition-related health problems, diabetes, breast/cervical cancer, reproductive health, and a variety of chronic diseases. Other programs focus on maternal/infant health, women's health, school health education, and behavioral risk factor surveillance. Qualifications include broad knowledge of public health programs related to chronic disease prevention and proven ability to provide administrative and scientific leadership for a multidisciplinary health program. A doctoral degree (M.D., Ph.D., or equivalent) is desirable. This senior executive service position is in the career civil service with an annual salary range of \$92,900 to \$115,700. Members of the commissioned corps of the Public Health Service are also eligible to apply. Physicians may be eligible for a comparability allowance of up to \$20,000 per year. Interested applicants may send curriculum vitae and names of three professional references postmarked by March 31, 1994, to: **Nancy Peterson, Personnel Management Office, Mailstop D01, Centers for Disease Control and Prevention (CDC), 1600 Clifton Road, NE, Atlanta, GA 30333.** Telephone: (404) 639-3614. *CDC is an Equal Opportunity Employer and provides a smoke-free work environment. This is a drug testing designated position.*

POSITIONS OPEN

The Department of Mechanical Engineering at the Massachusetts Institute of Technology invites applications for a tenure-track position in the area of **THERMO-FLUID SCIENCES**. Areas of interest include, but are not limited to, studies in the fundamentals of molecular and interfacial phenomena, multiscale transport processes in simple and complex fluids, and advanced diagnostics. The appointee is expected to contribute to teaching and curriculum development at the undergraduate and graduate levels, and to develop a sponsored graduate research program in his/her field of interest.

Candidates should have a Ph.D. in mechanical engineering or a related field, and have a demonstrated interest and exceptional ability in teaching and research. Individuals with industrial-related experience are particularly encouraged to apply. Preference will be given to appointments at the junior level (untenured assistant/associate professor). Senior candidates with outstanding credentials may be considered for appointments at advanced levels. Applicants should send curriculum vitae (with citizenship and/or visa status), including a 1 to 2 page statement of current and future research interests, publications list, and the names and addresses of at least four references to: **Thermofluid Sciences Faculty Search Chair, Department of Mechanical Engineering, Room 3-173, Massachusetts Institute of Technology, Cambridge, MA 02139-4307.** Résumés received after **April 30, 1994**, may not be given full consideration. *MIT is an Equal Employment Opportunity/Affirmative Action Employer. Women and members of minority groups are strongly urged to apply.*

POSTDOCTORAL POSITION. The Industrial Biotechnology and Bioprocess Engineering Group, Idaho National Engineering Laboratory, invites applications for a postdoctoral appointment in molecular biology and/or bioprocess engineering. The ideal candidate will have experience in prokaryotic gene expression, cDNA cloning, site-directed mutagenesis, catalysis of complex enzymes, ribosomal RNA sequence analysis, PCR, or optimization of enzyme production in continuous culture. Candidate must be a U.S. citizen. One year appointment with possibility of renewal. Salary depends upon experience. Send curriculum vitae with 3 references to: **Dr. D.L. Shoaf, INEL, P.O. Box 1625, Idaho Falls, ID 83415-2203.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION IN MOLECULAR GENETICS OF HYPERTENSION

Available for the identification of genes controlling blood pressure in genetically hypertensive rats. Techniques include library construction and screening, cloning, RFLP analysis, PCR, DNA sequencing, linkage analysis, positional cloning and construction of congenic strains. Applicants must have a Ph.D. Experience in molecular biology and/or genetics is desirable. Send curriculum vitae to: **Dr. John Rapp, Chairman, Department of Physiology and Biophysics, Medical College of Ohio, P.O. Box 10008, Toledo, OH 43699.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS to apply newly developed combinatorial optimization algorithms and methods to engineer either therapeutic antibodies or photosynthetic proteins. Successful applicants should have previous experience in one or more of the following areas: phage displayed antibodies, combinatorial chemistry, computer science, or photosynthetic systems. **Dr. Douglas C. Youvan, Palto Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mountain View, CA 94043.**

POSTDOCTORAL POSITION IN MOLECULAR VIROLOGY AND CANCER

A postdoctoral position is available to study the role of hepatitis B viruses in hepatocellular carcinoma. Studies will focus on the effects of viral genes on growth factor and tumor suppressor gene signal transduction pathways in chronic carriers. Candidates should have a Ph.D. degree and experience in molecular genetics and/or virology. Please send curriculum vitae and names of three references to: **Charles E. Rogler, Ph.D., Liver Research Center, (Ullmann 613) Albert Einstein College of Medicine, Jack & Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461.**

An Equal Opportunity Employer.

POST-DOCTORAL POSITIONS FOR CARDIOVASCULAR AND PULMONARY RESEARCH

Our Pharmaceutical Research Center has 2 post-doctoral training positions for scientific researchers having a PhD degree in the following fields :

- ☐ **Molecular and Cellular Biology-Pathophysiology of the vascular wall** (endothelial dysfunction, proliferation of vascular smooth muscle cells)
- ☐ **Electrophysiology of vascular smooth muscle**, in particular in the field of pulmonary circulation (function of the endothelial cells, interaction endothelium/smooth muscle, patch clamp).

If you are interested in one of these positions, for an expected 18 months duration, please write to **PUBLVAL/1038**
27 route des Gardes - 92190 MEUDON -
and add your CV and a photo



UNSW

THE UNIVERSITY OF NEW SOUTH WALES AUSTRALIA

SCHOOL OF MICROBIOLOGY & IMMUNOLOGY

LECTURER/SENIOR LECTURER Tenured/Tenurable Appointment

Salary: Lecturer A\$41,000 - A\$48,688 per annum; Senior Lecturer A\$50,225 - A\$57,913 per annum. Level of appointment and commencement salary are dependent on qualifications and experience.

Applications are invited for a Lecturer/Senior Lecturer in the School of Microbiology and Immunology. The School has eight academic staff positions and is responsible for teaching microbiology and immunology to science and medical students. More than thirty PhD students are enrolled in the School. Particular research strengths in the School are: **Environmental microbiology** including studies in starvation and stress in environmental organisms, marine biotechnology, biodegradation, bioremediation and the molecular biology of environmental bacteria; **Medical microbiology** including *Helicobacter pylori* and gastrointestinal disease, molecular studies in pathogenesis and molecular methods for the detection of environmental pathogens.

Major criteria for selection to this position are excellence and enthusiasm in research, ability to lead a vigorous postgraduate team and proven teaching abilities at a tertiary level or a commitment to developing teaching skills. Familiarity with modern molecular techniques is an advantage, however, anyone with relevant qualifications and a desire to join an active, progressive and innovative teaching and research School is invited to apply. A knowledge and understanding of EO/AA principles is required.

The position is available immediately. Appointment will either be with tenure or on the basis of a contract with provision for conversion to tenure. Membership of a University approved superannuation scheme is compulsory.

Further information is available from Professor Adrian Lee on telephone (61 2) 697 2101 or facsimile (61 2) 313 6528.

Applications close 28 February 1994.

PLEASE QUOTE Ref 013SCI

APPLICATION PROCEDURE

Applicants should submit a written application QUOTING REFERENCE NUMBER. Include business and private telephone numbers; a complete résumé, (copies of academic transcript and qualifications where appropriate); and the names, addresses (and preferably facsimile numbers) of at least two referees to: The Recruitment Officer, Human Resources, P.O. Box 1, Kensington, N.S.W. 2033 Australia by applications close date. People from EEO groups are encouraged to apply.

22508

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At Burroughs Wellcome Co., you can discover your full potential for scientific research in an atmosphere where you will have access to world-renowned expertise. The result is an opportunity to extend the boundaries of knowledge, and enhance your skills. Discover your capabilities at Burroughs Wellcome Co.

The Department of Infectious Diseases & Immunology has the following opportunity which offers drug development challenges focusing on major viral diseases:

Position will be filled at the Clinical Research Scientist I or Clinical Research Scientist II level. The level of responsibility to be assigned will depend on the individual applicant's educational background and experience level.

Clinical Research Scientist I: Must have a Master's degree in a biological, physical, health, or other related science or a Doctor of Pharmacy degree PLUS 4 years of clinical/research experience (e.g. employment in a patient care setting, such as nursing or pharmacy; clinical laboratory experience; experience as a clinical research monitor/coordinator); OR a Ph.D in one of the disciplines described above, PLUS 1 year of clinical/research experience (as described above). Scientific writing assessment.

Clinical Research Scientist II: Must have a Master's degree in one of the disciplines described above OR Doctor of Pharmacy PLUS 6 years of clinical/research experience as described above OR a Ph.D in one of the disciplines described above PLUS 3 years of clinical/research experience as described above. Scientific writing assessment.

Other factors to be considered in selection include advanced training or experience in infectious diseases or microbiology, clinical drug development experience, experience with clinical research methodology/activities (e.g. study design, site monitoring) and computer experience. Will require frequent travel.

In addition to the advantages of our stimulating and challenging atmosphere, Burroughs Wellcome Co. offers one of the best compensation and benefits packages in the industry, including comprehensive health and dental plans, life and disability coverage, tuition reimbursement, relocation benefits, pension and investment savings plan, fitness facilities and more. To apply, please send your resume or C.V. indicating POS. #65381-19 in your cover letter by **March 7, 1994** to: **Burroughs Wellcome Co., HR-RD&M, 3030 Cornwallis Road, Research Triangle Park, NC 27709.**

For information on other job opportunities with Burroughs Wellcome Co., call our job information line at 919-315-8347.



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POSITIONS OPEN

POSTDOCTORAL POSITION available to study cellular transformation induced by the papillomaviruses. Projects include the molecular characterization of mitogenesis and transformation induced by viral proteins. Special consideration will be given to individuals with experience in molecular biology of signal transduction pathways and protein-protein interactions. Please send curriculum vitae and names of references to: **Dr. David J. Goldstein, Division of Gynecologic Oncology, S-Level, Lombardi Cancer Research Center, Georgetown University, 3800 Reservoir Road, N.W., Washington, DC 20007.**

BIOPHYSICS POSTDOCTORAL POSITION available immediately to participate in an ongoing research program on protein structure and function, specifically the inositol-cleaving phospholipases. Must be experienced in NMR as applied to biological systems. Excellent facilities and opportunities for collaborative studies with organic chemists and molecular biologists. Send curriculum vitae and arrange for 3 letters of reference to be sent to: **Dr. O. Hayes Griffith, Institute of Molecular Biology, University of Oregon, Eugene, OR 97403. FAX: (503) 346-5891; E-mail: hayes@imagel.uoregon.edu.** Applications accepted until February 25, 1994. *The University of Oregon is an Equal Opportunity/Affirmative Action/ADA Institution committed to cultural diversity.*

POSTDOCTORAL POSITION, MOLECULAR AND CELLULAR NEUROBIOLOGY, Baylor College of Medicine. Available immediately to combine molecular, biochemical and cell techniques to study 1) neurotoxins that block vesicle recycling or 2) mechanisms of neurotransmitter release. Although previous experience in molecular biology or protein purification is desirable, willing to train exceptional applicants with expertise in a related discipline. For consideration, send curriculum vitae and the names and telephone numbers of three references to: **Dr. Mark Perin, Division of Neuroscience, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030.** *Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

POSTDOCTORAL POSITION available immediately to study placental hormone gene expression and trophoblast differentiation. Ph.D. in cellular/molecular reproductive biology and experience in cell culture and molecular biology desired. Submit curriculum vitae and names, addresses and telephone numbers of three references to: **Dr. Thaddeus G. Golos, Ph.D., Wisconsin Regional Primate Research Center, University of Wisconsin, 1223 Capitol Court, Madison, WI 53715-1299, golos@primate.wisc.edu.bitnet.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS IN SIGNAL TRANSDUCTION to study how signaling via the *Drosophila* EGF-Receptor is amplified by the action of a novel integral membrane accessory protein (Rhomboid). Another project is to study how the *short gastrulation (sog)* gene antagonizes the activity of the TGF- β -like factor encoded by the *dpp* gene. Experience in protein biochemistry and molecular biology is strongly preferred. Send curriculum vitae and references to: **Dr. Ethan Bier, Department of Biology, University of California, San Diego, La Jolla, CA 92093. FAX: (619) 534-0053.**

POSTDOCTORAL POSITION

A position is available for a Ph.D. graduate to participate in studies of gene regulation. Experience in Molecular Biology required, particularly molecular cloning. Please send curriculum vitae and names of three references by March 1, 1994, to: **Dr. John S.D. Chan, University of Montreal, Maisonneuve-Rosemont Hospital, Research Center, 5415 boulevard de l'Assomption, Montreal, Quebec, Canada H1T 2M4. FAX: (514) 252-3569.**

POSTDOCTORAL POSITION available to study the role of chromatin structure in gene regulation using cultured cells and transgenic animals. A Ph.D. in Biological Sciences is required, together with a background in gene cloning, expression, gene regulation and chromatin structure. Please submit curriculum vitae and names and addresses of three references to: **Dr. Beatriz Levy-Wilson, Research Institute, Palo Alto Medical Foundation, 860 Bryant Street, Palo Alto, CA 94301.**

POSITIONS OPEN

POSTDOCTORAL POSITION to work on application of the scanning tunneling microscope (STM) in DNA sequencing. Biophysical chemist with experience in electrochemistry, chemistry of bases, surface science, or electron transfer. Send résumé and arrange for three letters of reference to be sent to: **Professor S.M. Lindsay, Department of Physics and Astronomy, Arizona State University, Box 871504, Tempe, AZ 85287-1504 (E-mail: Lindsay@phyast.la.asu.edu).** Closing date May 2, 1994. *ASU is an Affirmative Action, Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately to study molecular aspects of pseudorabies virus latency and the influence of immunization strategies upon latency. A strong background in molecular biology is required. Background in virology is preferred. Please send/FAX a curriculum vitae and 3 letters of recommendation to: **Dr. Roger Maes, Department of Microbiology, Michigan State University, Room 178 Giltner Hall, East Lansing, MI 48824. FAX (517) 353-4426.**

POSTDOCTORAL POSITION is available in the Division of Gastroenterology at our 591-bed major teaching hospital affiliated with SUNY-Stony Brook School of Medicine. Primary focus of research is the study of mechanisms and control of epithelial and muscle function in animal models of inflammatory bowel disease. Candidate should have a Ph.D. with experience in cell biology, molecular biology and/or immunology. The position is funded for at least two years. Send curriculum vitae and the names of three references to: **Employment Specialist, Human Resources, Winthrop-University Hospital, 259 First Street, Mineola, Long Island, NY 11501.** *Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.*

POSTDOCTORAL POSITION

Available immediately for Ph.D. or M.D. in molecular immunology. Research will involve studies on cellular and molecular mechanisms of human B cell differentiation. This area includes (1) biochemical purification and molecular cloning of various factors; and (2) regulation of lymphokine gene expression. Immunology training is not essential. The interested candidate is encouraged to send curriculum vitae to:

**Dr. Y. S. Choi
Director, Laboratory of Cellular Immunology
Alton Ochsner Medical Foundation
1516 Jefferson Highway
New Orleans, LA 70121
*An Equal Opportunity Employer.***

POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL Hematopoietic Development and Gene Regulation

A position is available to isolate and characterize hematopoietic stem cell growth factors in the *Xenopus* species and to study *bloodless* zebrafish mutants. The focus of these studies will be to understand ventral patterning and mesoderm induction, with particular emphasis on hematopoietic transcription factors. Experiments will include cloning of cDNAs involved in hematopoietic induction, embryo manipulation and *in situ* analyses. A Ph.D. or M.D. degree is required. Experience with *Xenopus* is preferred. Send curriculum vitae, brief research summary, and three letters of recommendations to: **Leonard I. Zon, M.D., Children's Hospital of Boston, 300 Longwood Avenue, Enders 7, Boston, MA 02115. FAX: 617-735-7262.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION in Neuroscience, Harvard Medical School and Children's Hospital in neocortex development and transplantation; cellular and molecular controls over neural precursor migration and differentiation in selectively neuron-deficient neocortex generated by targeted photolytic neuronal cell death. Prior training in molecular approaches to signal transduction and neural development desired. Reply to: **J. Macklis, Enders 3, 320 Longwood Avenue, Boston, MA 02115.**

POSITIONS OPEN

POSTDOCTORAL POSITION in lung toxicology/cell biology available immediately to study cellular and subcellular events involved in the inflammatory and permeability changes in the airways following exposure to air pollutants. The studies utilize innovative *in vivo* and *in vitro* approaches to examine biological effects. Participation in studies aimed at analyzing cytokines, cell adhesion molecules, cytoskeleton and epithelial injury is expected. Experience can be drawn from immunocytochemical, morphological and biochemical procedures. This position is funded by a grant from NIEHS, with a starting stipend of \$25,000. Send curriculum vitae and names of three references to: **Deepak K. Bhalla, Ph.D., Department of Community and Environmental Medicine, University of California, Irvine, Irvine, CA 92717-1825. FAX: (714) 856-4763; Telephone: (714) 856-4761. UCI: Rooted in education, enriched by diversity.**



GENELABS

POSTDOCTORAL POSITION

Genelabs Technologies, Inc. is a broad-based biopharmaceutical company focused on the development and commercialization of products for the diagnosis and treatment of viral diseases and cancer. The Molecular Virology Group has an opening for a highly motivated individual within its virus discovery program. Current research activities of the group are centered around the isolation of novel viral agents responsible for human hepatitis. Candidates should have a Ph.D. with a background in the areas of virology and molecular biology. Specific responsibilities include construction and screening of cDNA and DNA libraries to isolate and characterize novel viral sequences. Interested applicants should forward curriculum vitae to: **Genelabs Technologies, Inc., 505 Penobscot Drive, Redwood City, CA 94063.** *We are an Equal Opportunity Employer.*

POSTDOCTORAL POSITION BIOCHEMISTRY/MICROBIOLOGY

Senior postdoctoral position available immediately for research on cloning, sequencing and site-directed mutagenesis of industrial thermostable saccharidases and microbial metabolic engineering for primary metabolite production. Additional duties include supervision of graduate students and postdoctorates and assisting in the preparation of manuscripts and grants. Ph.D. in microbiology, biochemistry or biochemical engineering (with an emphasis in microbial physiology and molecular biology) and excellent oral and written communication skills required. Submit curriculum vitae to: **Professor J. G. Zeikus, 410 Biochemistry, BOX SGZ, Michigan State University, East Lansing, MI 48824.** *Handicapped applicants have the right to request and receive reasonable accommodations. Michigan State University is an Affirmative Action/Equal Opportunity Institution.*

POSTDOCTORAL RESEARCH FELLOW: Position available immediately for an individual with interests and expertise in gene delivery and expression to work on the development of new viral vectors for application in vaccine and gene therapy. Applicant should send a current curriculum vitae and the names of three referees to: **Dr. Y. Haj-Ahmad, Biology Department, Brock University, St. Catharines, Ontario, L2S-3A1, Canada. Telephone: (905) 688-5550 Ext. 3829; FAX: (905) 688-1855; E-mail: yousef@spartan.ac.BrockU.CA.** *Brock University is an Equal Opportunity Employer.*

POSTDOCTORAL FELLOW

Carolinas Medical Center, an 843-bed teaching, trauma and major referral center, is currently recruiting for a Postdoctoral Fellow. Works on the effects of stress on immune responses and resistance to infection. Ph.D., M.D., D.M.D., or D.V.M. or equivalent doctoral degree and experience working on research in immunology/infectious disease required. Project will focus on development of models for stress and immunity, with a goal of developing basic science systems that may prove to be of eventual clinical significance. Research will be under direction of **Dr. Gerald Sonnenfeld.** Please send a copy of your curriculum vitae and 3 references to: **Human Resources, Charlotte-Mecklenburg Hospital Authority, P.O. Box 32861, Charlotte, NC 28232-2861 or call (704) 355-2101 or (800) 942-6898.** *Equal Opportunity Employer.*



**University of Illinois at Urbana-Champaign
Vice Chancellor for Research and
Dean of the Graduate College**

Nominations and applications are invited for the position of Vice Chancellor for Research and Dean of the Graduate College at the University of Illinois at Urbana-Champaign. This official is one of four Vice Chancellors reporting to the Chancellor of the Urbana-Champaign campus, and is a key campus-level academic administrator.

The responsibilities of the position include: the promotion and maintenance of excellence in research and scholarship; the promotion of excellence in graduate education and oversight of graduate programs; administration of service and research units reporting to the office of the Vice Chancellor for Research and Dean of the Graduate College; interaction with public and private sources of support for University research activities; formulation, implementation, and administration of policies regarding patents, copyrights, and intellectual property rights in research agreements with private sponsors; coordination of computing and telecommunications resources for the campus; and administration of federal and state regulations relating to research activities.

The Vice Chancellor and Dean should have a commitment to excellence in research, scholarship, and graduate education in all areas of a leading, comprehensive university, as well as to equal opportunity and affirmative action. He or she should have the following qualities: leadership ability and success in working with agencies which support research, both within and outside the University; ability to work with administrative units and faculty to maintain and strengthen the University of Illinois at Urbana-Champaign as a major center of the highest quality graduate education and research; and an outstanding record in research, scholarship, and teaching, with experience in supervising Ph.D. theses. Candidates should be eligible for a faculty appointment in an academic unit.

Salary open. Position available August 21, 1994. To be assured of full consideration, nominations or applications (including resume) should be submitted by March 1, 1994 to:

Professor Jane Liu, Chairperson
Search Committee for Vice Chancellor Research and
Dean of the Graduate College
University of Illinois at Urbana-Champaign
Swanlund Administration Building
601 East John Street
Champaign, Illinois 61820

The University of Illinois is an Affirmative Action, Equal Opportunity employer.

POSITIONS IN THE UCSD PROGRAM IN HUMAN GENE THERAPY

The new Gene Therapy Program at the University of California, San Diego announces the availability of two positions (tenured, tenure-track series, research series, or other series as appropriate). The level of appointment and departmental affiliation, salary will be commensurate with the experience and qualifications of the successful candidate and will be based on published UC pay scales. The applicants must have M.D. or Ph.D. degrees.

1. **Director of the Clinical Applications Core Laboratory.** The director of this unit will be responsible for supervising the preparation of cells and gene transfer reagents suitable for use in human clinical studies. The successful candidate must have experience with the preparation of human gene therapy protocols, with the design of human clinical research protocols, and with the local and federal regulatory processes for vector certification, including presentations to the Recombinant DNA Advisory Committee and Food and Drug Administration. The director must also have experience with molecular genetics and will be expected to establish an independent research program.

2. **Director of a Gene Expression Core Laboratory.** The director of this laboratory will be responsible for developing structural and molecular assays for gene therapy studies and for training of staff of participating UCSD faculty. The director should have experience with histopathological and molecular genetic techniques, including tissue preparation, immunohistochemical and *in situ* hybridization techniques, blotting and PCR methods and will also be expected to maintain an independent research program.

Please submit resumes and names and addresses of three references to Theodore Friedmann, M.D., Director, UCSD Gene Therapy Program, Center for Molecular Genetics, UCSD School of Medicine, La Jolla, CA 92093-0634. The deadline for submission of applications is 1 April 1994. AA/EOE.

KUWAIT FOUNDATION FOR THE ADVANCEMENT OF SCIENCES (KFAS) INVITATION OF NOMINATIONS FOR THE KUWAIT PRIZE 1994

The Kuwait Prize was institutionalized to recognize distinguished accomplishments in the arts, humanities and sciences. The Prizes are awarded annually in the following categories:

- A. Basic Sciences
- B. Applied Sciences
- C. Economics and Social Sciences
- D. Arts and Letters
- E. Arabic and Islamic Scientific Heritage

The Prizes for 1994 will be awarded in the following fields:

- A. Basic Sciences: **Molecular Biology**
- B. Applied Sciences: **Nutrition and related Diseases**
- C. Economics and Social Sciences: **Development of Arab Human Resources**
- D. Arts and Letters: **Comparative Literature**
- E. Arabic and Islamic Scientific Heritage: **Mining and Metallurgy**

Foreground and Conditions of the Prize:

1. Two prizes are awarded in each category:
 - * A Prize to recognize the distinguished scientific research of a Kuwaiti, and,
 - * A Prize to recognize the distinguished scientific research of an arab citizen.
2. The candidate should not have been awarded a Prize for the submitted work by any other institution.
3. Nominations for these Prizes are accepted from individuals, academic and scientific centres, learned societies, past recipients of the Prize, and peers of the nominees. No nominations are accepted from political entities.
4. The scientific research submitted must have been published during the last ten years.
5. Each Prize consists of a cash sum of K.D. 30,000/- (U.S.\$100,000/-approx.), a Gold medal, a KFAS Shield and a Certificate of Recognition.
6. Nominators must clearly indicate the distinguished work that qualifies their candidate for consideration.
7. The results of KFAS decisions regarding selection of winners are final.
8. The papers submitted for nominations will not be returned regardless of the outcome of the decision.
9. Each winner is expected to deliver a lecture concerning the contribution for which he was awarded the Prize.

Inquiries concerning the Kuwait Prize and nominations including complete curriculum vitae and updated lists of publications by the candidate with four copies of each of the published papers should be received before 31/10/1994 and addressed to:

**The Director General
KUWAIT FOUNDATION FOR THE
ADVANCEMENT OF SCIENCES
P.O. Box: 25263, Safat - 13113, Kuwait
Tel: +965 2429780
Fax: +965 2415365**

CELLULAR IMMUNOLOGIST

Virogenetics Corporation, a leader in the research and development of recombinant poxvirus vectors for producing a new generation of human and veterinary vaccines and immunotherapies, invites applications for a **RESEARCH SCIENTIST** position.

A position is open for a research scientist with a background in cellular and tumor immunology. Applicants should possess a Ph.D. in relevant field and have at least two years of postdoctoral experience. The position will require the development of a strong research program utilizing recombinant poxviruses in animal tumor model systems. Working knowledge of the regulation of the immune system will be advantageous. Leadership, organization, teamwork, and communication skills are essential.

Located in pleasant surroundings, **VIROGENETICS CORPORATION** encourages multi-disciplinary collaboration within a stimulating research environment. Along with the opportunity for professional advancement, a comprehensive benefits package and attractive salary, commensurate with qualifications, are offered.

For immediate consideration, interested candidates should submit a *curriculum vitae* with the names of three references to: **Attention: Search Committee, Virogenetics Corporation, 465 Jordan Road, Troy, New York 12180.**

An affirmative action/equal opportunity employer.



PROGRAM DIRECTOR at the rank of Assistant/Associate Professor (Senior Research). Rank will be determined by experience. Salary: Up to \$55,000 per year depending on qualifications and experience. An experienced research scientist is sought for this newly created position. The Program Director will provide leadership in developing multi-agency interdisciplinary projects in Conservation Biology within OSU's Center for Analysis of Environmental Change, involving its partners (Oregon State University, USDA Forest Service Pacific Northwest Experiment Station, USEPA Environmental Research Laboratory, Corvallis, and Battelle Pacific Northwest Laboratories) and other organizations.

Current CAEC projects in Conservation Biology are concerned with conservation and restoration of coastal salmonid populations of the North Pacific Rim in relation to environmental changes. The Program Director will lead a newly funded project designed to develop cooperation in Conservation Biology and Watershed Management between the Russian Far East and the U.S. and will develop and direct new proposals. The successful applicant will be expected to maintain an active involvement in appropriate research opportunities for the CAEC in Conservation Biology. Applicants must have a Ph.D. in Fisheries Science, Conservation Biology, Ecosystem Management, or a related field, with five to ten years research experience and with experience in leading multi-disciplinary teams. International travel to develop research programs will be necessary. Knowledge of computing applied to data analysis and geographic information systems is desirable. This is a fixed-term position as a full-time Assistant/Associate Professor (Senior Research) with appointment renewal being at the discretion of CAEC's Director.

A letter of application with a full resume, plus names, addresses, and telephone numbers of three references must be received by 4 March 1994. Send to:

Dr. Mike H. Unsworth, Director
Center for Analysis of Environmental Change
283 Weniger Hall
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Women in Science 1994

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The *Women in Science* special section examines the growing role of women in the scientific community around the world. Features include:

- **Women in Different Cultures:** What factors determine the position of women scientists in different cultures? What are the perspectives of women who have worked in different cultures?

- **Profiles:** SCIENCE profiles women working in diverse national cultures, including Germany, Turkey, China, the Philippines and India.

- **Focus on Women:** SCIENCE looks at the molecular biology department at Stockholm University where over half the faculty are women. In Italy, women have assumed important roles in several areas of the physical sciences. SCIENCE describes the reasons for this success.

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 - East Coast: April 22-23, Cambridge, Massachusetts

PLUS, the *Women in Science* special section gets additional distribution to:

- The American Association for Women in Science
- SDE Graduate Women in Science

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Show your company's support for equal opportunity employment and share in the advancement of women with SCIENCE. To reserve your space in this annual recruitment advertising opportunity, call today!

In the US and Canada: Call Janis Crowley at (212) 496-7704, or fax: (202) 682-0816.

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In Australia and New Zealand: Call Keith Sandell at (+61) 02922 2977, or fax: (+61) 02922 1100.

Issue Date:
March 11, 1994
Advertising Space Deadline:
February 22, 1994.

SCIENCE
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Tenure-Track Faculty Positions Department of Genetics

The Department of Genetics of the University of Pennsylvania School of Medicine is undergoing expansion, and plans to make several appointments in each of two areas: 1. Molecular genetics of lower eukaryotes, and 2. Mammalian or developmental genetics, including human molecular genetics. Attractive new laboratory space and other resources are available.

The deadline for applications is April 1, 1994. Send curriculum vitae, including bibliography, statement of research interests, and names and addresses of three references to:



Chair, Search Committee
Department of Genetics
School of Medicine
University of Pennsylvania
422 Curie Boulevard
Philadelphia, PA 19104

AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER

Tampa Bay Research Institute Assistant Professor

Tampa Bay Research Institute of St. Petersburg, Florida, and Salem-Teikyo University of Salem, West Virginia, announce the development of a joint Graduate Program in Molecular Biology/Technology. Currently, applications for a junior position of Assistant Professor in the laboratory of Virology are being solicited.

The focus of the research will be in the molecular mechanisms of herpes virus latency, focusing on the regulation of viral gene expression and of viral DNA replication. This is a collaborative effort eventually leading to an independent research program.

Tampa Bay Research Institute is based in a modern facility with excellent individual laboratory and office space, and centralized facilities including a Biotechnology Service laboratory, transgenic mice and in-house DNA sequencing data base.

Salem-Teikyo University, already committed to strengthening its undergraduate training in Molecular Biology/Biotechnology, is establishing a Graduate Program. Incumbent must have demonstrated communication skill and ability to teach at the graduate level.

Successful candidates will have their research programs located in Florida and will teach one modular course per year at STU. Joint appointments at Tampa Bay Research Institute are expected for successful candidates.

Applicants should have a Ph.D., or equivalent. Interested individuals should send curriculum vitae, list of publications, and names and addresses of three referees to the Chairman, Search Committee, Tampa Bay Research Institute, 10900 Roosevelt Blvd., St. Petersburg, FL 33716.

It Takes More Than Good Intentions To Be A Health Care Pioneer.

The Pharmaceutical Products Division of Abbott Laboratories is committed to developing novel drugs to meet the medical needs of the 21st century. As part of that commitment, we have recently instituted a New Lead Discovery Area focused on the identification and characterization of novel pharmacologically active compounds.

To support our success, we now have openings for:

SR. RESEARCH PHARMACOLOGIST

You will develop and implement high capacity screening assays to identify agents for the treatment of immunological disorders or aging and degenerative diseases. This will involve directing 2-3 associate scientists. Assays will utilize receptor binding, enzymatic, molecular biology and other pharmacological techniques.

We expect a PhD in Biochemistry, Molecular Biology or Pharmacology and 3-5+ years experience. You must be goal oriented and committed to high capacity screening. Reply to Job# 71234A.

SR. RESEARCH MICROBIOLOGIST

You will develop and implement high capacity screening assays to identify agents for the treatment of viral, bacterial and fungal infections. This will involve directing 2-3 associate scientists. Test systems will include biochemical, enzymatic, molecular biology or whole cell assays.

We require a PhD in Biochemistry, Molecular Biology or Microbiology and 3-5 years experience. You must be goal oriented and committed to high capacity screening. Reply to Job# 71234B.

MANAGER

Chemical Repository and Acquisitions

You will oversee our chemical repository, direct an aggressive chemical acquisition program, and supervise 10+ associate scientists involved in compound registry, chemical structure computer entry, physical inventory and worldwide sample shipment. In addition, you will direct computer and information systems personnel devoted to chemical and chemical/biological database development and end-user services. You will also identify and acquire diverse chemical research libraries.

We require a PhD in a relevant field of Chemistry and 3-10+ years experience involving chemical research, chemical databases, computer application and/or molecular modeling. Reply to Job# 71234C.

RESEARCH ASSOCIATES

Immunosciences Research... Your primary focus will be to help establish a new cell and tissue culture facility and develop animal models of inflammation and joint diseases. We require a BS or MS in Biochemistry, Cell Biology or Pharmacology and 3-5 years of laboratory experience in a range of *in vitro* and *in vivo* techniques directed toward new drug development. Reply to Job# DM67482.

Neuroscience Research... The successful candidate will have a MS in Biology or Pharmacology, or a BS with 2-3 years of laboratory experience. Background in pharmacological assays, including enzyme assays, radioligand binding and/or functional assays in isolated tissues or cells is also required. Some experience with cell culture would be an advantage. Reply to Job# EK73683.

Abbott provides an excellent salary and benefits package including profit sharing and a stock retirement plan. We are located in an attractive suburban area, approximately 30 miles north of Chicago. For confidential consideration, please send a resume and salary history (indicating appropriate Job#) to: Patricia Handy, D-393, J30, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

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MISSION

Biogen is a dynamic young biotechnology company principally engaged in developing genetically engineered human pharmaceuticals. Now in our 16th year, we are one of the few profitable biotech companies in the U.S. Revenues come from five products -- including Intron (R)A alpha interferon and hepatitis B vaccines and diagnostics -- sold throughout the world by licensees or affiliates. Current research is directed toward the discovery and development of proprietary products to treat inflammation, cardiovascular disease, AIDS and certain cancers.

Research Scientist - Molecular Virology

Work in the department of Viruses & Growth Control at Biogen is directed toward the identification and development of novel human therapeutics for the treatment of viral infections and cancers. We are seeking a creative scientist for our virology program which is currently focused on research and drug development in human papillomaviruses. Selected candidate must have experience in one or more of the following areas: viral gene regulation, cellular transformation and antiviral immune response. An interest in gene therapy is also helpful. Successful candidates should have a PhD degree and a record of scientific excellence. Post-doctoral research is desirable though not required.

Biogen offers what few companies in our industry can - Scientific Challenge, Stability, Profitability, and Growth. In addition, our compensation and benefits package, which includes relocation assistance, is one of the best in the industry, and is designed to attract and retain the finest talent available. If you are one of the best, you have an opportunity to join us now.

We encourage your immediate response. Please forward your CV to Dept. SM, Biogen, Inc., 14 Cambridge Center, Cambridge, MA 02142; FAX# (617) 252-9595. Biogen is an Equal Opportunity Employer.

BIOGEN

Université de Montréal
Faculté de médecine vétérinaire

ANATOMY AND PHYSIOLOGY
AND RESEARCH IN
ANIMAL REPRODUCTION

The Department of Anatomy and Physiology and the Center for Research in Animal Reproduction (CRRA) of the Faculté de médecine vétérinaire, Université de Montréal seek an individual with a Ph.D. and postdoctoral training in endocrine biochemistry and molecular biology, with a background in studies of the genome of domestic animals for a tenure track position. The successful candidate will initiate his/her program of research as well as become an interactive member of a group of 8 investigators of the CRRA who are working in ovarian physiology and embryo biology. As a member of the Department of Anatomy and Physiology, the candidate will be expected to teach at the undergraduate and graduate levels. Ability of work in French, or the willingness to acquire said ability within a reasonable period is also necessary. The salary and rank of the individual chosen will be determined by the collective agreement currently in force. **Applications will close on April 1, 1994, or when a suitable candidate is found.** Please apply by sending a curriculum vitae, a letter indicating research interests and the names, addresses and telephone numbers of three referees to: Dr. L. DeRoth, Head, Department of Anatomy and Physiology, Faculté de médecine vétérinaire, Université de Montréal, C.P. 5000, Saint-Hyacinthe (Québec), J2S 7C6. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University is committed to equal employment opportunity for women.

MICHIGAN STATE UNIVERSITY
TENURE-TRACK WILDLIFE POSITION
#AG-5

The Department of Fisheries and Wildlife at Michigan State University invites applications for a 12-month, tenure-track, restoration ecologist position at the assistant professor level. Preference will be given to applicants with a Ph.D. with strong quantitative skills and background in assessment and restoration of human-disturbed ecosystems. Experience in examining urban, rural, and/or agricultural systems through the integration of quantitative ecological and methodological is desired. Evidence of ability to work effectively with state, federal, and private organizations, obtain research grants, conduct research and publish findings is expected. Duties include: teach undergraduate and graduate courses, including an introductory course in the ecology and restoration of human-disturbed ecosystems, and a graduate course in restoration ecology; conduct applied research on the ecology of wildlife in human-disturbed ecosystems with implications towards management of exploited, unexploited and protected species; participate in faculty committees, public service programs and advising of graduate and undergraduate students; cooperate with Michigan Department of Natural Resources in conducting research on management-related topics and in developing management policies and procedures.

Salary is competitive, commensurate with training, experience and demonstrated ability. Interested persons should submit a letter of application stating professional goals and objectives, a resume with supporting materials including transcripts, and three letters of reference to: Dr. R. Ben Peyton, Search Committee Chairperson, Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI 48824-1222. TELEPHONE: (517) 353-3236. E-MAIL: 20570MGR@msu.edu FAX: (517) 336-1699.

APPLICATION DEADLINE: MARCH 31, 1994 or until a suitable candidate is found. Michigan State University is an equal opportunity/affirmative action employer. Minority and women candidates are encouraged to apply. Handicappers have the right to request and receive reasonable accommodation.

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The Department of Anatomy, School of Veterinary Medicine, in cooperation with the Lafayette Center for Medical Education (a part of the Indiana Statewide Medical Education System), is offering a tenure track assistant professorship for an individual with a M.D./Ph.D. or Ph.D. from an anatomical sciences department of a medical school. The primary teaching duty will consist of teaching gross and developmental human anatomy to 16-20 first year medical students and secondarily developing a graduate course in gross anatomy as an outreach to other departments on the Lafayette campus. The department fosters excellent teaching which utilizes innovative educational methodologies. The applicant should have post doctoral training in cell and/or molecular biology with an emphasis towards studying significant problems in cellular differentiation or tissue regeneration. The research should be funded by extramural peer-reviewed grant agencies or foundations. Current research activities in the department center on osteogenesis and implant biocompatibility, embryonic development in hypogravity, dietary fatty acid regulation of immunity, dietary factors controlling intestinal enterocyte differentiation, and CNS regeneration. A research laboratory, research technician (for at least two years) and start-up funds will be provided by the department. Graduate student support is also available.

Application review will begin February 1, 1994 and continue to 1 July 1994 or until the position is filled. Interested applicants should send their vita, description of teaching and research experiences and plans, reprints of publications and three letters of recommendation to Dr. D.C. Van Sickle, VAN Search Committee, School of Veterinary Medicine, Purdue University, West Lafayette, IN 47907-1242 (telephone 317-494-8623 or fax 317-494-1772).

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

THE UNIVERSITY OF TEXAS AT AUSTIN
Endowed position in Nutrition
and Molecular Biology

The Division of Nutritional Sciences invites applications for an endowed position in Molecular Nutrition. Candidates should have a record of scientific excellence in molecular nutrition and leadership commensurate with an endowed academic appointment. This is a 9 month tenured academic appointment and the holder of the endowed position will hold a joint appointment in the Department of Human Ecology and the Department of Molecular Biology.

The Division of Nutritional Sciences offers programs leading to the B.S., M.A. and Ph.D. in Nutritional Sciences. The Division, with approximately 150 undergraduate and 50 graduate majors is located within the College of Natural Sciences. The University of Texas at Austin is the oldest and largest of the University of Texas System's 15 component institutions. It has a main campus of 357 acres and 110 buildings, 48,500 students, 2,300 faculty members and a staff of more than 10,000. Austin is located on the Colorado River at the eastern edge of the beautiful Texas Hill Country, and boasts a pleasant, mild climate, a diverse culture, and an economy based on state government, The University, and a number of high technology industries.

Applications will be accepted until April 15, 1994. After that date the search committee may request and consider credentials from candidates nominated by responsible sources. Candidates should submit curriculum vitae, description of current and future research plans, and names of three references to: Dr. Mary Locniskar, Chairman Search Committee

Division of Nutritional Sciences
Department of Human Ecology 22700
The University of Texas, Austin, Texas, 78712-1097

The University of Texas at Austin is an affirmative action, equal opportunity employer.



The Aaron Diamond AIDS Research Center
455 First Avenue, 7th Floor
New York, NY 10016
Phone (212) 725-0018; Fax (212) 725-1126

The Faculty of the Aaron Diamond AIDS Research Center has positions for post-doctoral scientists and research technicians in several areas of AIDS research. Located in Manhattan, the Aaron Diamond Center is affiliated with New York University School of Medicine. The philosophy of the faculty is to meld basic and clinical research groups to create an interdisciplinary approach to AIDS pathogenesis, vaccines and antiviral drugs. The ability to work collaboratively is an important requirement for applicants.

Research of the Faculty:

David Ho, Director—HIV transmission and pathogenesis, antiviral drugs, virus variation, and neutralizing antibodies

Cecilia Cheng-Mayer—Molecular determinants of HIV tropism and pathogenesis; the HIV-1 *nef* gene; the SHIV animal model

Richard Koup—Cell-mediated immunity against HIV; the SCID mouse model

Nathaniel Landau—The regulatory genes of HIV (*nef*, *vpu*, *vpr*)

Preston Marx—Macaque and chimpanzee models for HIV; mucosal immunity against HIV-2/SIV

John Moore—Humoral immunity against HIV; structure and function of the HIV envelope glycoproteins

Applicants interested in the work of the Center are encouraged to fax or send their résumé to Sonya Lopes, indicating for which research group their experience is most suited.

Excellence In Research For Over 100 Years.

Since 1888, the Abbott name has represented excellence in R&D and innovation in biomedical sciences. Today, we remain committed to this ideal. Now, we have opportunities for you to join us and benefit from our worldwide leadership in diagnostics and drug development, and our long-term commitment to R&D.

MOLECULAR BIOLOGY AND MOLECULAR RECOGNITION Senior Scientist - Staff Position

A position is available for a PhD level candidate with post-doctoral experience. The areas of expertise should include one or more of the following: molecular biology, nucleic acid chemistry, structure-function analysis of nucleic acids or proteins. It would be ideal if the candidate has experience with screening pools of nucleic acid sequences for binding to specific targets. **Reply to Job# 52183A.**

PROTEIN MODELING Postdoctoral Position

The primary research activities of the successful candidate will involve computer-aided structure function studies of selected proteins and modeling of antibody-antigen complexes. The ideal candidate will have a background in crystallography, NMR or theoretical chemistry, but candidates from other fields (biophysics, computational biology, etc.) are also encouraged to apply. **Reply to Job# 52183B.**

MOLECULAR BIOLOGISTS

The Diagnostics Division of Abbott Laboratories has openings for Molecular Biologists who will join interdisciplinary teams engaged in the development of nucleic acid probes for diagnostic applications in health care. Successful candidates will have a PhD in Molecular Biology or the equivalent; postdoctoral experience is a plus.

The positions require a thorough knowledge of and practical experience in the use of DNA and RNA hybridization techniques for the identification and quantification of specific nucleic acid sequences. Experience in the amplification and detection of very small amounts of RNA targets and/or probe design is desirable along with knowledge and experience with PCR, southern and northern blots, and non-isotopic detection methods. **Reply to Job# 14476.**

Our facility is located in an attractive suburb 30 miles north of Chicago. Compensation is competitive and our generous benefits include profit sharing. To apply, send your resume and a letter (indicating appropriate Job#) to: **A. Faron, D-94C, J30, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064.** Abbott is an Affirmative Action Employer/Smoke-Free Environment.

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RESEARCH OPPORTUNITY

A professional position is available in a Bioinformatics Program initiating the development of a new mammalian Gene Expression Resource. This position entails literature searching, acquiring and analyzing data to be incorporated into the gene expression database, interacting with labs that contribute data, and helping database users. The successful applicant will be primarily responsible for data acquisition and database maintenance; in addition, he/she will play a key role in developing the dictionary of developmental anatomy and developmental fate table for stages of mouse embryogenesis. He/she will participate with the Gene Expression Resource group in defining database content and display methods, and will interact closely with the Mouse Genome Informatics project which is developing genetic and molecular databases. Applicant must be well versed in developmental biology/embryology/anatomy. Molecular biology and genetics knowledge a plus. Other desirable skills include ability to write and communicate well and experience using a computer. MS degree in life sciences required.

The Jackson Laboratory, located on the coast of Maine on the fringe of Acadia National Park, is a world renowned center and resource for mammalian biology and genetics.

Please contact Harold R. Wheeler, Human Resources Manager, The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609, (207) 288-3371, Internet hrw@aretha.jax.org
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National Institute of Allergy and Infectious Diseases
National Institutes of Health

Protein X-Ray Crystallographers

Several Postdoctoral positions are available for studies in protein crystallography. The work will focus on the structure and function of cytokines, and other molecules of relevance to immune function.

Qualified candidates should send curriculum vitae including names and addresses of three references to:

Peter D. Sun, Ph.D.
National Institutes of Health
Building 5, Room 332
9000 Rockville Pike
Bethesda, MD 20892
Phone 301-402-4497
FAX 301-496-0201

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POSITIONS OPEN

COMPUTATIONAL BIOCHEMIST

POSTDOCTORAL POSITION beginning summer/fall 1994 in **structure-based design of proteins**, inhibitors and targeting motifs and analysis of water's role in molecular recognition. Good experimental collaborations. Ph.D. required; experience in computer programming, protein sequence/structural analysis, and molecular graphics preferred. Send curriculum vitae, research interests, and names of three references to: **Prof. Leslie Kuhn, Box SLK, Department of Biochemistry, Michigan State University, East Lansing, MI 48824**. Applications received by 15 May 1994 will receive preference. *Handicapped applicants have the right to request and receive reasonable accommodations. Michigan State University is an Affirmative Action/Equal Opportunity Institution.*

POSTDOCTORAL FELLOWSHIPS AT HARVARD MEDICAL SCHOOL/BRIGHAM AND WOMEN'S HOSPITAL available to study the cellular and molecular mechanisms of autoimmune tissue injury. Experience in immunology and/or molecular biology required. Send résumé and three references to: **Dr. Vicki Rubin Kelley, Department of Medicine, Brigham and Women's Hospital, Boston, MA 02115**. FAX: (617) 732-6392; Telephone: (617) 732-3915. *Harvard Medical School/Brigham and Women's Hospital are Equal Opportunity Employers.*

VICTORIA UNIVERSITY OF WELLINGTON POSTDOCTORAL FELLOWSHIPS

Applications are invited for **POSTDOCTORAL FELLOWSHIPS** in the following specific projects: Severe Weather and Climate in New Zealand (Research School of Earth Sciences); Structural Modelling of the North Taranaki Basin (Research School of Earth Sciences); Molecular Systematics: Mitochondrial DNA Sequencing (School of Biological Sciences); and Biological Control of Heather (School of Biological Sciences).

Each Fellowship is tenable for a maximum of two years, with a salary not exceeding NZ\$37,000 per annum. Appointees from overseas will be eligible for a travel grant payable after the Fellowship is taken up.

Conditions of appointment and method of application are available from the: **Appointments Administrator, VUW, P.O. Box 600, Wellington, New Zealand (FAX: +64 4 495 5238; E-mail: marriott@vuw.ac.nz)**, with whom applications close on 4 March 1994.

The University is an Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS

Available to study development of neuroendocrine systems, mechanisms of action of neuropeptides on anterior pituitary gland hormone secretion, and control mechanisms for hypothalamic and anterior pituitary gland hormone secretion via a multidisciplinary approach. Preference may be given to candidates with experience in molecular biology, developmental or cell biology, and/or reproductive physiology. Salaries are very competitive. Send letter, curriculum vitae, and list of three references to: **Charles A. Blake, Ph.D., Chairman, Department of Cell Biology and Neuroscience, University of South Carolina School of Medicine, Columbia, SC 29208**. *An Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE

A position is available (July 1994 or earlier) to investigate the electrophysiological and neurochemical correlates of sleep in the rat. The research will involve use of advanced computer facilities for on-line waveform analysis of the EEG and computer-controlled sleep deprivation. Familiarity with techniques for surgical preparation of animals for chronic EEG recording, single unit electrophysiology, and anatomical investigation of brain tissue would be assets. The Research Associate will also be required to teach an undergraduate course in neuroscience. The position is funded for up to three years at the assistant professor salary level. A letter of application accompanied by curriculum vitae and the names and addresses of three references should be sent to: **Dr. Peter Ramm, Department of Psychology, Brock University, St. Catharines, Ontario, Canada L2S 3A1**.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE

position available immediately to study cellular and molecular mechanisms that regulate expression of neuropeptides in the central nervous system. Experience with molecular and biochemical techniques in reproductive neuroendocrinology is desirable. Send curriculum vitae and the names of three references to: **Dr. Satya P. Kalra, Department of Neuroscience, University of Florida College of Medicine, Box 100244, Gainesville, FL 32610**. *Equal Opportunity/Affirmative Action Employer.*

POSTGRADUATE RESEARCH POSITIONS at

EPA's Risk Reduction Engineering Laboratory in Cincinnati. Several positions available in various research areas including environmental synthetic chemistry, technology for cleaning up hazardous waste sites, hydrofacturing, *in situ* biochemical treatment of soils/wastes, and speciation of metals in soils and wastes. Other research areas also available. A degree within three years of starting an appointment is preferred. *U.S. citizenship or permanent resident alien status is required*. Stipend levels vary depending on degree level and research area. For additional information on each project, including degree level required: **Postgraduate Research Program/RREL, Science Engineering Education Division, Oak Ridge Institute for Science and Education, P.O. Box 117, Oak Ridge, TN 37831-0117**. Telephone: (615) 576-3456.

RESEARCH ASSOCIATE: position available for organic/medicinal chemist to participate in an ongoing project involving the development of radioactive compounds for the diagnosis and treatment of cancer. Individual will develop novel methods for antibody and peptide radioiodination as well as labeling strategies using the alpha-emitting nuclide astatine-211. Send curriculum vitae and the names of three references to: **Professor Michael R. Zalutsky, Duke University Medical Center, Box 3808, Durham, NC 27710**. *Equal Opportunity/Affirmative Action Employer.*

BROWN UNIVERSITY DEPARTMENT OF MEDICINE RESEARCH ASSISTANT

Available immediately to participate in NIH-funded research on cellular immune responses in HIV-infected pregnant women and their infants. Projects include evaluation of HIV envelope-specific ADCC and CTL responses as they relate to vertical transmission and disease progression. Background in immunology and experience in tissue culture required; salary commensurate with experience. Send curriculum vitae to the principal investigator: **Gail Skowron, M.D., Division of Infectious Diseases, Department of Medicine, Roger Williams Medical Center, 825 Chalkstone Avenue, Providence, RI 02908**.

SENIOR SCIENTIST—COAGULATION REAGENT DEVELOPMENT

An immediate growth opportunity exists for an experienced person in the area of product development of coagulation reagents. The incumbent should have three to five years of industrial experience in IVD product development and be a self-starter. Knowledge of FDA cGMP and 510(k) regulations is required. The firm offers competitive salaries and benefits and enjoys an attractive midwestern location with good housing and schools. All inquiries will be held in confidence and should be addressed to: **Box 46, Science Classified Advertising, 1333 H Street N.W., Room 814, Washington, DC 20005**.

The USDA, AGRICULTURAL RESEARCH SERVICE (ARS), Laramie, Wyoming, is seeking a **POSTDOCTORAL RESEARCH GENETICIST/ENTOMOLOGIST** to study the molecular genetics of insect disease vectors. Research will involve characterizing interactions between insect vectors and bluetongue virus variants. A Ph.D. is required. Beginning salary: GS-11 (\$34,662) and GS-12 (\$41,543) is commensurate with qualifications. Submit application, curriculum vitae and college transcripts to: **Dr. Walter J. Tabachnick, USDA-ARS, Arthropod-Borne Animal Diseases Research Laboratory, P.O. Box 3965, Laramie, Wyoming 82071**. Telephone: 307-766-3605. This position will remain open until filled. *ARS is an Equal Opportunity Employer. Women and minorities are urged to apply.*

SCIENCE and HUGO Present THE GENES AND BEYOND

HORIZONS IN MEDICINE, BASIC RESEARCH, AND TECHNOLOGY

OCTOBER 2-5, 1994 WASHINGTON, D.C.

Mark your calendar now! For the fifth year, Science magazine and The Human Genome Organisation (HUGO) are pleased to sponsor the most comprehensive update on the genome project. The meeting will span issues in mapping, development, signal transduction, genome analysis, medical ethics, and policy.

The genome project is having a revolutionary effect on medical diagnosis, biotechnology, and investigations in cell and molecular biology.

- What are the newest advances in technology?

- How can the genome project be applied to understanding fundamental cellular processes?

- What are the latest developments in identifying disease genes?

- What are the social and policy issues facing us in the future?

For answers to these questions and a complete update on the genome project, don't miss this meeting! Call (703) 671-1400 or fax (703) 671-7695 today for more info.



The Research Centre of an **important French Pharmaceutical company** based in the **Paris Region**, is looking for a :

PH. D. BIOCHEMIST

for its
Division of
diabetes and
metabolic
diseases

The candidate should have **professional or postdoctoral experience** in *in vitro* (enzymology, receptor studies) and *ex vivo* techniques, as well as a **general knowledge of Biochemistry**.

Experience in molecular and cellular biology would be

considered an advantage.

An ability to work independently as well as an ability to **communicate** and **collaborate** with other groups within the division is indispensable.

A **knowledge of French** would be an advantage.

Please submit a CV, a photo and a handwritten letter to MEDIA SYSTEM, 6 impasse des Deux Cousins, 75849 Paris, Cedex 17 France, quoting ref. 47987 on the envelope.

MEDIA SYSTEM

NFR Naturvetenskapliga forskningsrådet
Swedish Natural Science Research Council

invites applications for
RESEARCH POSITIONS in

- **Correlation of Precambrian crust in Europe and the North Atlantic region**
- **Isotope geology of the lithosphere based on ion-microprobe research.** (This position will be at the Swedish Museum of Natural History).
- **Molecular yeast research**
- **Organometallic chemistry with emphasis on new methodologies**
- **Polar glaciation history**
- **Solid ion conductors**
- **Space physics related to the EISCAT Svalbard radar**

The positions will be at an appropriate research group within Sweden. Tenure will be for 3 years as from October 1, 1994 and may be prolonged for another three years. The salary range will correspond to that of an associate professor (SEK 245 000-330 000 per year). Applications should reach the Swedish Natural Science Research Council, Box 7142, S-10387 Stockholm, Sweden, by March 15, 1994. A curriculum vitae including a list of publications, a short research plan and, at most, 10 reprints of scientific papers should be appended in four copies to the application which should also be in quadruplicate.

Further information can be obtained from Ms. Natalie Lunin at the Secretariat of NFR, phone no. +46 8 454 42 32, fax no. +46 8 454 42 50.

DEPARTMENT OF BOTANY AND MICROBIOLOGY FACULTY OF SCIENCE UNIVERSITY OF KUWAIT

Applications are invited for the post of Associate Professor or Assistant Professor tenable in September 1994, in the following disciplines:

A. Microbiology

1. Applied Microbiology - with experience in biotechnological and environmental aspects
2. Molecular Immunology
3. Microbial Genetics - Molecular Genetics of eucaryotic microorganisms
4. Plant Pathology

B. Botany

1. Plant Structure and Anatomy
2. Algal Physiology
3. Plant Ecology - Ecology of higher plants in Arid zones
4. Plant Propagation - with experience in cell and tissue culture

Qualifications: Ph.D. in the appropriate discipline as required.

Benefits: Attractive salary (tax free), with added benefits (furnished residence, air tickets for the family up to three children, mid-term and summer holidays).

Applications and conditions of service may be obtained from: Kuwait University, 3500 International Dr., N.W., Washington, D.C. 20008. Complete applications should be sent directly to:

**The Chairman
Department of Botany & Microbiology
Faculty of Science
Kuwait University
FAX #965/484-7054**

Faculty Position in Aquatic Toxicology. The Department of Biology, Middle Tennessee State University, invites applications for a tenure track position (#103330, Asst. Prof., Ph.D. required by first day of class) available August, 1994. Successful applicant must have a broad background in biology with speciality in aquatic based toxicology. Teaching undergraduate and graduate courses, research/public service expected. Women and minorities are encouraged to apply. Application review begins 1 March 1994. Send application letter referencing position number, proof of eligibility for employment, transcripts, and three letters of reference to: Dr. Padgett Kelly, Committee Chair, Box X054, M.T.S.U., Murfreesboro, TN 37132.

Faculty Position in Anatomy and Physiology. The Department of Biology, Middle Tennessee State University, invites applications for a tenure track position (#103320, Asst. Prof., Ph.D. required by first day of class) available August, 1994. Appropriate training to teach courses in anatomy and physiology, endocrinology, and freshman biology. Research/public service expected. Women and minorities are encouraged to apply. Application review begins 1 March 1994. Send application letter referencing position number, proof of eligibility for employment, transcripts, and three letters of reference to: Dr. M. Barnard, Committee Chair, Box X001, M.T.S.U., Murfreesboro, TN 37132.

Faculty Position in Evolutionary Ecology. The Department of Biology, Middle Tennessee State University, invites applications for a tenure track position (#103340, Asst. Prof., Ph.D. required by first day of class) available August, 1994. Will teach courses in evolutionary ecology, general biology, and speciality. Research/public service expected. Women and minorities are encouraged to apply. Application review begins 1 March 1994. Send application letter referencing position number, proof of eligibility for employment, statement of teaching and research interests, transcripts, and three letters of reference to: Dr. Dennis Mullen, Committee Chair, Box 60, M.T.S.U., Murfreesboro, TN 37132.

POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATE
position available for Ph.D. or M.D. at the Lady Davis Institute for Medical Research affiliated with McGill University. Candidates must have an interest in the physiology or molecular biology of energy expenditure and temperature regulation. Please send curriculum vitae, references and letter specifying research interests and career goals to: J. Enrique Silva, M.D., Sir Mortimer B. Davis Jewish General Hospital, 3755 Cote-Ste-Catherine Road, Montreal, Quebec, H3T 1E2, CANADA.

RESEARCH ASSOCIATE to conduct site-directed mutagenesis of metalloproteins available immediately. Required: M.S./Ph.D. chemistry, biochemistry, or closely related field; experience in techniques of modern molecular biology. Salary dependent on qualifications and experience. Appointment one year; renewal dependent on funding. Send application letter, résumé, and two letters of recommendation to: RA Search Committee, Department of Chemistry and Biochemistry, Montana State University, Bozeman, MT 59717. Telephone: (406) 994-4801. Screening begins February 18, 1994, and continues until candidate hired. *Americans with Disabilities Act/Equal Opportunity/Affirmative Action/Veterans Preference.*

ECOLOGICAL TOXICOLOGIST

The U.S. Environmental Protection Agency—Region 8 in Denver, Colorado, is presently looking for a highly qualified toxicologist with specific training in the area of terrestrial and avian ecology to serve as an advisor and technical group coordinator within the Superfund Program. An advanced degree (Ph.D. or D.V.M.), advanced training in toxicology, a working knowledge of EPA risk assessment guidance and/or considerable experience related to ecotoxicology are desirable.

The position will be filled at the GS 12/13 level; salary range \$42,128 to \$65,121 per annum depending on qualifications. *Candidate must be U.S. citizen. An Equal Opportunity Employer.* Inquiries and requests for the position description or government applications (SF-171 forms) should be directed to: Valerie Taylor, 999 18th Street, Suite 500, Denver, CO 80202. Telephone: (303) 293-1499. Correctly completed applications will be accepted until March 1, 1994.

FIP Fuji ImmunoPharmaceuticals Corp. PHARMACOLOGIST

Fuji ImmunoPharmaceuticals Corp. (FIP) is a rapidly growing pharmaceutical company based in Lexington, Massachusetts. FIP seeks an experienced pharmacologist to lead the company in pharmacokinetics and formulations. Candidates should have a Ph.D. in pharmacology or a related field, with 3 to 5 years of postdoctoral experience. For consideration, please send your curriculum vitae to: Bryan Keaney, Fuji ImmunoPharmaceuticals Corp., 125 Hartwell Ave., Lexington, MA 02173. FIP is an Equal Opportunity Employer.

MOLECULAR CELL BIOLOGIST

Two **RESEARCH SCIENTIST** positions to join a group of 10 investigators exploring hormonal and age-dependent regulation of transcription factors. Ph.D. with experience in eukaryotic molecular biology is required. Stimulating academic environment, generous salary support, and excellent living conditions. Research will be under the direction of Arun K. Roy, Ph.D., Professor of Cellular and Structural Biology. Send curriculum vitae and names of three references to: The Office of Human Resources, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7972.

An Equal Opportunity/Affirmative Action Employer.

A multidisciplinary group of biochemists seeks a Ph.D. graduate with experience in techniques of molecular biology to work initially as a collaborating **POSTDOCTORAL RESEARCH FELLOW** (especially to learn other techniques related to protein chemistry, immunoassay, gonadotropin chemistry, etc.) and to develop, in time, an independent research program in reproductive endocrinology. This position has a high potential for career growth. Please send curriculum vitae to: Dr. Robert E. Canfield, Director, Irving Center for Clinical Research, PH 10-305, 630 West 168th Street, New York, NY 10032. *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

COURSES AND TRAINING

EXPERIMENTAL AGING RESEARCH TRAINING COURSE, June 12-16, 1994, Northern California. Lectures and workshops on molecular biology/genetics, neurobiology/immunology; suitable for junior faculty, advanced postdoctoral fellows. Sponsored by Andrus Gerontology Center, USC, and Buck Center for Research in Aging. **No course fee. Limited number of travel fellowships available.** Apply by April 1, 1994. Contact: L. Greenfield, BCRA, 505A San Marin Drive, Suite 300, Novato, CA 94945. Telephone: (415) 899-1800.

NUCLEIC ACID AND PROTEIN SEQUENCE ANALYSIS WORKSHOP FOR BIOMEDICAL RESEARCHERS

29 May to 3 June 1994

Pittsburgh Supercomputing Center (PSC) is offering a five-day training workshop in applying supercomputing resources to problems of concern in macromolecular sequence analysis. Prior supercomputing experience is not required. Funding by NCHGR provides several grants for travel expenses. \$135 registration fee. **Deadline for applications is 31 March 1994.** Contact: Nancy Blankenstein, 412/268-4960 or blankens@psc.edu.

The Second Bar Harbor, Maine Faculty Workshop, June 11-15, 1994

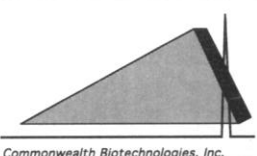
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Space is limited. Contact: Judith P. Swazey, Ph.D., The Acadia Institute, 118 West Street, Bar Harbor, ME 04609-1429. Telephone/FAX: 207-288-4082.

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NEW ENGLAND BIOLABS

Molecular Biology and Biotechnology

Summer Workshop

WHEN:

Session I: June 5-June 18, 1994
Session II: June 26-July 9, 1994
Session III: July 17-July 30, 1994

WHERE:

The Clark Science Center
Smith College
Northampton, MA

FACULTY:

Dr. Steven A. Williams
Dept. of Biological Sciences, Smith College,
and Program in Molecular and Cellular Biology,
University of Massachusetts

Dr. John R. McCarrey
Dept. of Genetics, Southwest
Foundation for Biomedical Research

Dr. Barton Slatko
New England Biolabs, Inc.
DNA Sequencing Group

Dr. Kathleen Fearon
College of Veterinary Medicine
Auburn University

TO APPLY:

for this workshop, please submit a recent C.V.
and a one page statement of motivation to:

Dr. Steven A. Williams
Dept. of Biological Sciences
Smith College
Northampton, MA 01063

We are pleased to announce the ninth annual New England Biolabs Molecular Biology and Biotechnology Summer Workshops held at The Clark Science Center, Smith College, Northampton, MA.

INTENSIVE BENCH EXPERIENCE: This intensive, two-week course emphasizes hands-on molecular biology laboratory work. About eight hours each day will be spent working at the bench. All of the work is hands-on; there are no demonstrations.

EXPERIMENTS WILL INCLUDE: Construction and screening of genomic and cDNA libraries, PCR, RNA-PCR, purification of DNA, restriction enzyme digestion, gel electrophoresis, construction of recombinant DNA molecules, cloning in plasmid and phage vectors, cloning strategies, bacterial transformation, Southern and Northern transfer and hybridization, radioactive and non-radioactive labeling of DNA, and DNA sequencing. All of these techniques are woven into a cohesive research project carried out by each participant during the two-week session. Lectures and discussion sessions (at least three hours each day) will deal with all of the above topics and how these methods are applied in molecular biology research.

INTENDED FOR BEGINNERS IN MOLECULAR BIOLOGY:

No previous experience in molecular biology is required or expected. Forty participants per session will be selected from a variety of disciplines and academic backgrounds. Last year's participants included principal investigators, directors of programs, postdoctoral fellows, graduate students, and research assistants. Their fields of research included biochemistry, medical physiology, immunology, microbiology, pharmacology, plant biology and others. They came from large universities, small colleges, medical schools, hospitals, industry, and private foundations.

FEE: \$2700 per participant includes lab manual, use of all equipment and supplies, and room and board (all rooms are singles). Fee includes the use of the libraries and all campus athletic facilities including indoor and outdoor tennis courts, pool, weight room, track, etc.

APPLICATIONS MUST BE RECEIVED BY March 1, 1994.

Notification of acceptance, wait-list, or rejection will be mailed by March 7, 1994. Payment in full will be due by April 15, 1994. Your application should include a C.V. and a one page statement explaining your motivation for taking the course. Please specify the session to which you are applying (I, II, III) and indicate if you wish to be considered for one of the other sessions as a second choice. Women and minorities are especially encouraged to apply. **For additional information, please contact Dr. Steven A. Williams at (413) 584-3643.**



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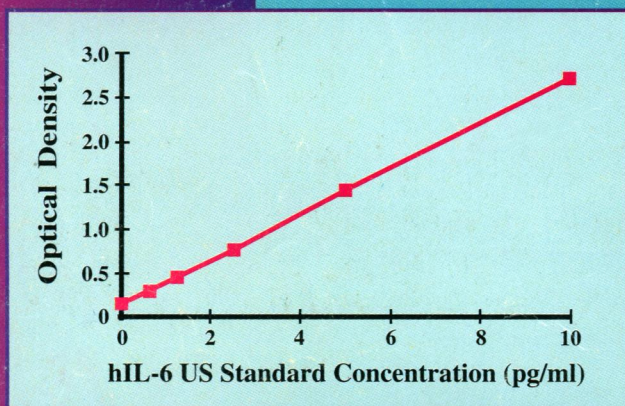
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