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PRODUCTS & MATERIALS

Genomic DNA Preparation

The DNA Direct kit isolates genomic DNA ready for polymerase chain reaction from blood, bone marrow, and cultured cells. There are no centrifugation steps or hazardous chemicals used. The 10-min procedure is completed in a single tube. **Dynal UK. Circle 135.**

Chemical Engineering Symbols Software

The Chemical Engineering Symbols Collection software contains more than 250 modular drawings of towers, heat exchangers, valves, controls, pumps, solids equipment, and others to help create process flow diagrams. The drawings can be edited to create more variations. **SoftShell International. Circle 136.**

Antibodies

A mouse monoclonal antibody against the 56 kD (PC-1) prostate nuclear matrix protein preferentially stains prostatic carcinoma, but not normal prostate tissue, in acetone-fixed frozen tissue sections. **Oncogene Science. Circle 137.**

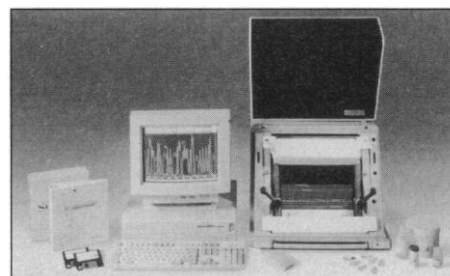
A rabbit polyclonal antibody to N-methyl-D-aspartate receptor NR2, which plays a role in neuronal development, synaptic plasticity, learning, and memory, can be used in immunocytochemistry, protein immunoblotting, and immunoprecipitation. **Chemicon International. Circle 138.**

Antibodies are available for characterizing human cytochromes P450 on protein immunoblots. **Oxford Biomedical Research. Circle 139.**

Automated DNA Sequencer

ALFexpress is a new automated DNA sequencer designed to combine high-speed accuracy and affordability for sequencing and

fragment analysis. The unit is designed to address the problems of low accuracy and high costs commonly associated with automated DNA sequencing. ALFexpress provides a total system from sample preparation



to final data printout. The system includes a complete range of gel casting chemicals and sequencing reagents, including a solid phase kit to facilitate sample preparation, a sequencing unit with few moving parts, and computer controls under a multi-task operating system with software that provides a high resolution picture of the sample analysis. The unit's single-dye chemistry eliminates spectral overlap and filtering problems and heightens the signal-to-noise ratio. The base-calling algorithm is capable of reading 300 base pairs with 99% accuracy in 1 hour. In fragment analysis, it can separate 150 to 200 base pairs in 30 min. **Pharmacia Biotech. Circle 140.**

DNA Purification Kit

The Compass DNA Purification Kit isolates DNA from agarose gels faster than silica-base kits. It can DNA purify from as small as 100 base pairs to as large as 50 kilobases. **American Bioanalytical. Circle 141.**

Apoptosis Detection Kit

The ApopTag Plus Kit is an enhanced version of an *in situ* apoptosis detection kit that provides quick, permanent staining of apoptotic cells in the context of surrounding tissue. The kit can detect single apoptotic cells and is superior to *in situ* polymerase transla-

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.

tion in distinguishing apoptosis from necrosis, according to the manufacturer. It is available in peroxidase and fluorescein versions. **Oncor. Circle 142.**

Nucleic Acids Work Station

The ISS Nucleic Acids Work Station for cross-contamination-free handling of nucleic acids is the first to combine an ultraviolet light sterilized workspace with high-efficiency particulate air filtration and activated carbon for a germ-free workspace and vapor control during use. Workspace dimensions are 47 cm by 30 cm and the entire unit is housed in a plexiglass cover. **Integrated Separation Systems. Circle 143.**

Nucleic Acid Sequencers

The Kodak IBI Base Runner nucleic acid sequencers are designed to provide fast setup, reproducible results, and flexibility. The Base Runner 200 features a dual gel design for maximum sample capacity; the Base Runner 100 is an economical, single-gel sequencer. An adjustable height gel assembly accommodates gels from 30 to 60 cm in length. The units can resolve 400 or more bases per run. Specially designed plates



eliminate gel artifacts and minimize pre-run time. Removable buffer tanks with drain valves permit safe and convenient disposal. **Sigma-Aldrich Techware. Circle 144.**

Literature

An Internet-accessible database of chemicals, biochemicals, and laboratory products can be accessed by telnetting to "biores.com" and entering as a "guest." Access is free, enter "return" at the password prompt. **Biochemical Resources. Circle 145.**

Instruments for HPLC, LC and Sample Preparation is a 12-page brochure on a line of automated chromatography systems. **Gilson. Circle 146.**

AMRESCO 1995-1996 Catalog features more than 500 high-quality, high-purity products for biotechnology, including new nucleic acid purification kits, a complete line of high-resolution polyacrylamide matrices, and countless reagents. **Amresco. Circle 147.**

Prodigy is a brochure on a rugged, high-purity reversed-phase column for analysis of acidic, basic, and amphoteric drugs and biochemicals. **Phenomenex. Circle 148.**

Membrane Separations Products for Enhanced Productivity in the Biotechnology Laboratory is a 28-page catalog featuring products for filtration of tissue culture media, buffers, and protein solutions; membrane separation products for the rapid concentration and purification of biomolecules; systems for sample and mobile phase cleanup; and disposables. **Sartorius. Circle 149.**

NEW Basic Laboratory Hoods describes the features, benefits, specifications, dimensions, and accessories of two new hoods. **Labconco. Circle 150.**



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- Robert M. Kelly, North Carolina State University
- Paul Armond, Pfizer Central Research
- Janice Thompson



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Prepare double-spaced typewritten copy. Do not include any abbreviations. *Science* will edit and typeset ads according to *Science* guidelines. Include billing information, and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training, Search Firms. *Science* cannot provide proofs of typeset line ads.

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FAX: 202-682-0816

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FAX: 202-682-0816

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Science reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

POSITIONS OPEN

FACULTY POSITIONS BIOCHEMISTRY, BIOPHYSICS AND MOLECULAR BIOLOGY University of Iowa College of Medicine

The Department of Biochemistry of the University of Iowa seeks highly qualified applicants for two tenure-track positions. It is anticipated that these appointments will be made at the **ASSISTANT PROFESSOR** level, although exceptional candidates at any rank may be considered. Salaries are competitive and will depend on qualifications and experience. Support for equipping laboratories and initiating research programs will be excellent. Applicants with research interests in any area of modern biochemistry will be considered. Quality of research, not a specific research area, will be the primary criterion.

All applicants must have a relevant graduate degree (Ph.D., M.D. [or both] or equivalent foreign degree), and should have at least two years of productive postdoctoral experience and the potential to initiate and maintain a rigorous research program. In addition to establishing or continuing successful research programs, faculty participate in the department teaching programs. The training of graduate students and participation in appropriate graduate programs also is expected.

Applicants should include a complete curriculum vitae and a summary of future research plans. Applicants should ask three scientists familiar with their work to write letters of reference. Consideration of completed applications will begin on September 1, 1995, and continue until these positions are filled. Applications, nominations, and letters of reference should be sent to: **Daniel L. Weeks, Associate Professor, Chair of the Faculty Search Committee, Department of Biochemistry, College of Medicine, University of Iowa, Iowa City, IA 52242-1109. Telephone: 319-335-7934.**

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

FACULTY POSITIONS Albert Einstein College of Medicine Department of Molecular Pharmacology

The Department of Molecular Pharmacology is expanding and will recruit new faculty members during the period of August 1995–March 1996. Candidates are invited to apply for positions at all academic levels (**ASSISTANT, ASSOCIATE and FULL PROFESSOR**). All positions offer the opportunity for tenure. We are seeking individuals with a record of excellence in research who will apply skills in biochemistry, molecular biology, genetics and cell biology to solve problems relevant to molecular pharmacology. Essential requirements are: an innovative research program that complements programs within the Department and the Medical School; and a commitment to the training of Fellows and graduate students. Research areas of interest to the Department include: mechanisms of hormone, oncogene, growth factor and neurotransmitter actions; regulation of gene expression and differentiation; structure, function and regulation of receptors, channels and transporters; signal transduction, second messengers and protein phosphorylation; post-translational modification and intracellular targeting. Substantial packages will be provided to start up and sustain the laboratories of successful candidates. Submit a curriculum vitae, a statement of research interests, future plans and three letters of reference to: **Dr. Charles S. Rubin or Dr. Susan B. Horwitz, c/o Ms. Anna Cioffi, Administrator, Department of Molecular Pharmacology, Albert Einstein College of Medicine, Jack & Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Equal Opportunity Employer.**

BIOLOGY FOR NON-MAJORS SPECIALIST

ASSISTANT/ASSOCIATE PROFESSOR—Teaching and Research—James Madison University: tenure-track starting January 1996 to coordinate and teach non-majors biology. Ph.D. in biological sciences or other doctorate plus biology M.S. required. Active learning, multimedia and large lecture experience preferred. Please provide curriculum vitae, and specific statements of (1) teaching experience and philosophy, (2) skills in instructional technology, using active learning and experience making large lecture class presentations, (3) subject matter qualifications, and (4) research interests, as well as three letters sent directly by references to: **Dr. Dean Cocking, Chair NMB Search Committee, Department of Biology, James Madison University, Harrisonburg, VA 22807. Application deadline September 5, 1995. Rank and salary commensurate with qualifications and experience. Equal Employment Opportunity/Equal Access.**

POSITIONS OPEN

UNIVERSITY OF WISCONSIN BIOMOLECULAR CHEMISTRY ASSISTANT PROFESSOR

A tenure-track **ASSISTANT PROFESSOR** position is available June 1, 1996, for a person with strong biochemical research and teaching interests. Applicant abilities are more important than specific research interests. Department faculty have active basic and applied research programs in biological chemistry, molecular biology and molecular genetics, with emphasis on structure and function of proteins, membranes, nucleic acids, cellular control mechanisms and hormone action. Faculty have teaching responsibilities for graduate, medical and health science students. Applicants should have two plus years of biochemical postdoctoral research experience. If interested, please send curriculum vitae, bibliography, reference letters from three persons knowledgeable of your research/teaching abilities, and a one-to-two page statement of future research interests to: **Dr. James E. Dahlberg, Chair, Search Committee, Department of Biomolecular Chemistry, UW Medical School, 587 Medical Sciences Building, 1300 University Avenue, Madison, WI 53706-1532, by October 1, 1995.**

The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer. Minorities and women are especially encouraged to apply. In accordance with state legislation, unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

LUNG MORPHOLOGIST/PATHOLOGIST Assistant/Associate Professor of Environmental Medicine

The Department of Environmental Medicine in conjunction with the Department of Pediatrics, School of Medicine and Dentistry, University of Rochester, Rochester, New York, invites applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level according to the qualifications of the candidate. Responsibilities include teaching and developing a strong research program in addition to collaborative interactions with existing programs. The research should focus on environmental/occupational air pollutant induced injuries of the respiratory tract using morphometric analyses, immunohistochemical and *in situ* hybridization techniques at the light and electron microscopic levels. Applicants should submit a curriculum vitae, a statement of research interests and the names and addresses of three references to: **Dr. Günter Oberdörster, Department of Environmental Medicine, University of Rochester, 575 Elmwood Avenue, Rochester, NY 14642. Application deadline: September 15, 1995. The University of Rochester is an Equal Opportunity Employer.**

ASSISTANT PROFESSOR OF NATURAL RESOURCES UNIVERSITY OF VERMONT

Fisheries Ecology. **TENURE-TRACK** academic-year position to begin as early as spring semester 1996. Teach undergraduate courses in fisheries biology, introduction to aquatic resources, and in alternate years an advanced undergraduate course and a graduate course. Applicants must have Ph.D. with emphasis in fisheries ecology. Applicants should send letter of interest, curriculum vitae, and names, addresses, and telephone numbers of three references to: **Fisheries Ecology Search Committee, School of Natural Resources, University of Vermont, Burlington, VT 05405. Screening of applicants will begin September 15, 1995, and continue until filled. For additional information, contact: Dr. David H. Hirth, telephone: 802-656-2684; Email: dhirth@moose.uvm.edu. The University of Vermont is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to racial, cultural, and gender diversity. Applications from multicultural and female candidates are especially encouraged.**

Biologist: Wabash College seeks a **VISITING ASSISTANT PROFESSOR** or Instructor for a one-semester position beginning January 1996. Ph.D. preferred. Duties include participation in lectures and labs for a team-taught introductory biology course for majors and a special topics course in the candidate's area of expertise. Animal orientation preferred but not essential. Submit curriculum vitae and three letters of recommendation by October 1, 1995, to: **David Krohne, Chair, Biology Department, Wabash College, P.O. Box 352, Crawfordville, IN 47933. Wabash College, a small liberal arts college for men, encourages applications from women and minorities. Equal Opportunity Employer.**

Tenure-Track And Postdoctoral Opportunities.

The following research training opportunities are currently available at the National Institutes of Health.

Tenure-Track Position Assistant Professor Equivalent

Brain Imaging

Markku Linnoila, MD, PhD

A position is available for a board-certified or eligible psychiatrist or neurologist to develop an independent research program on alcoholism, antisocial behavior, and CNS receptor and metabolic regulation in humans and nonhuman primates. The program complements ongoing behavioral, molecular genetic, and neuroendocrine studies on alcoholism and individuals at high risk of developing alcoholism. Candidates must be US citizens or permanent residents with research interests in brain imaging, ligand development, receptor regulation and polymorphisms. Please submit a *curriculum vitae*, a detailed statement of research interests, selected publications, and names of three references by September 30, 1995. Laboratory of Clinical Studies (OE-91), NIAAA, Building 10, Room 3C103, 10 CENTER DR MSC 1256, BETHESDA MD 20892-1256.

Postdoctoral Positions

Functional Analysis of Murine LIM/Homeobox Genes

Heiner Westphal, MD

Members of the LIM/Homeobox gene family play pivotal roles in embryonic development. The laboratory characterizes these genes biochemically and in gene-altered mice, using a state-of-the-art mouse facility. Gene ablations or mutations generate exciting phenotypes. A background in molecular biology or in molecular genetics of development is desirable. Laboratory of Mammalian Genes and Development (OE-91), NICHD, Building 6B, Room 413, 6 CENTER DR MSC 2790, BETHESDA, MD 20892-2790.

Intermediates in Biological Fusion

Leonid V. Chernomordik, PhD

A stage of biological fusion which is prior to membrane merger but downstream of the conformational change of the fusion proteins is being investigated. Applicants must have a background in cross-linking agents and biophysical techniques; be capable of creating new lines of inquiry within an existing project on mechanisms of viral fusion and exocytosis; and have less than five years of postdoctoral experience. Laboratory of Theoretical and Physical Biology (OE-91), NICHD, Building 10, Room 10D04, 10 CENTER DR MSC 1855, BETHESDA MD 20892-1855.

Molecular Biology of Renal Transport

John B. Pritchard, PhD

Renal organic anion and cation secretion mediate elimination of toxic chemicals. Current projects use cultured epithelium, membrane vesicles and imaging to examine control of secretion and coordination of intracellular and membrane events during secretion. Expression cloning of secretory transport proteins has begun. A molecular biologist with less than five years of postdoctoral experience is required to participate in the cloning project. Laboratory of Cellular and Molecular Pharmacology (OE-91), NIEHS, Building 19, Room 1901B, P.O. Box 12233, Research Triangle Park, NC 27709.

Molecular Biomarkers of Risk

Douglas A. Bell, PhD

Molecular epidemiologic studies of gene-environment interaction.

Development and application of methods for detecting somatic mutation and germline polymorphism in genes that modulate exposure, DNA damage and disease in human population studies. Candidates should have molecular biology experience and have less than five years postdoctoral training. Laboratory of Biochemical Risk Analysis (OE-91), NIEHS, P.O. Box 12233, MD C3-03, Research Triangle Park, NC 27709.

Neuronal Calcium Binding Proteins

David M. Jacobowitz, PhD

Multidisciplinary studies are being conducted on neuronal calcium binding proteins (e.g., calretinin) and their gene regulation, in order to understand their role in neuronal physiology. Applicants will conduct gel mobility shift assays, carry out cultured and primary cell transfections, RNase protection assays, and cloning experiments and will learn neuronal cell culture, immunocytochemistry, neuroanatomy, and histopharmacology. Laboratory of Clinical Science (OE-91), NIMH, 10 CENTER DR MSC 1266, BETHESDA MD 20892-1266, 301-496-1956.

Regulation of Viral Gene Expression

Thomas M. Kristie, PhD

Herpes simplex virus is used as a model system for the analysis of cellular and viral factors involved in the transcription of RNAPII genes. These studies focus upon the molecular interactions which mediate the assembly of enhancer-promoter complexes and upon the biochemical mechanisms of gene transcription. Applicants should have experience in molecular biology and protein biochemistry, and have less than five years of postdoctoral experience. Laboratory of Viral Diseases (OE-91), NIAID, Building 4, Room 133, 4 CENTER DR MSC 0455, BETHESDA MD 20892-0455.

Additional Opportunities

The NIHEDNET Bulletin Board **POSTDOC** (fellowship positions) and **TENURE** (tenure track positions) conferences are accessed via a modem (**301-402-2221 or 800-358-2221** with parameters set at **7,Even,1**) or the Internet using Telnet (**wylbur.cu.nih.gov**) or the World Wide Web (URL: **telnet://wylbur.cu.nih.gov**). When connected to NIH, key in **,vt100** for terminal emulation, **F5E** for initials, and **AJL1** for account number. To view tenure track positions, **quit** the **POSTDOC** conference and **join** the **TENURE** conference.

An electronic version of the *Postdoctoral Research Fellowship Opportunities* catalog is accessed via the Internet using either the Gopher Information System (**gopher.nih.gov**) or the World Wide Web (URL: **http://lwww.nih.gov**). When connected with Gopher, select **Grants and Research Information** and then **NIH Office of Education**. When connected with WWW, select **Grants and Contracts** and then **NIH Office of Education**. If you have further questions, please contact the NIH Office of Education, Building 10, Room 1C129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, Phone 301-496-2427, Fax 301-402-0483.

To Apply

If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (MD, DO, DDS, DMD or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, *curriculum vitae*, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.



National Institutes Of Health

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POSITIONS OPEN

TWO FACULTY POSITIONS DEPARTMENT OF NEUROSCIENCE Tufts University School of Medicine Boston, Massachusetts

Two intermediate to senior level **TENURE-TRACK POSITIONS** for faculty with currently funded, independent research programs are available, with interviews beginning in the fall of 1995. One position is for an individual with extensive and broad molecular biology training applied to a research program in neuroscience. The second position is open to individuals with research interests including, but not limited to, signal transduction, immunology/virology/neurobiology, development, and systems neurobiology. Tufts Neuroscience grants a Ph.D. in neuroscience, including students on an M.D./Ph.D. track. The department is interactive and has ties with clinical research programs as well. Teaching responsibilities are directed to both graduate and medical students. Please send a current curriculum vitae and a statement of research interests to: **Neuroscience Search Committee, Neuroscience Department, Tufts University Medical School, 136 Harrison Avenue, Boston, MA 02111. FAX: 617-636-7413; Email: bdangelo@infonet.tufts.edu. For more information about Tufts Neuroscience, go to: <http://www.neurosci.tufts.edu/homepage.html>. Tufts is an Equal Opportunity/Affirmative Action Employer.**

NEUROBIOLOGIST WITH EXPERTISE IN MYELINATING CELL BIOLOGY

The Miami Project to Cure Paralysis, University of Miami School of Medicine, seeks an **ASSISTANT PROFESSOR** for a tenure-track position to conduct research related to spinal cord injury and its sequelae (particularly demyelination). The focus of this work should be on elucidating the mechanisms that control myelinating cell proliferation and differentiation both *in vitro* and *in vivo*. Because of the accessibility of Schwann cells for autotransplantation, emphasis will be on this cell type.

The candidate must have a Ph.D. and/or M.D. degree, with five years of research experience, including a post-doctoral research period, with a record of publications in refereed journals and experience in procuring research support.

Apply prior to August 31, 1995. Forward curriculum vitae, names and addresses of three references and a summary of research interests to: **Dr. Richard P. Bunge, Scientific Director, The Miami Project to Cure Paralysis, University of Miami School of Medicine, 1600 NW 10th Avenue (R-48), Miami, FL 33136. Equal Opportunity Employer/Affirmative Action/Drug & Smoke Free Workplace.**

DEPARTMENT OF GENETICS UNIVERSITY OF WASHINGTON

The Department of Genetics at the University of Washington seeks applicants with at least two years of postdoctoral experience for a tenure-track position at the level of **ASSISTANT PROFESSOR**. The Department seeks an individual who will develop an active research program using genetic approaches to study a fundamental biological process and who will teach at both the graduate and undergraduate levels. Applicants should submit a curriculum vitae, summary of research interests, copies of two or three major publications and three letters of reference by October 15, 1995, to:

Search Committee
University of Washington
Department of Genetics
Box 357360
Seattle, WA 98195-7360

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

Two **RESEARCH ASSISTANT PROFESSOR** positions are available in the department of Neuroscience. Ph.D. and advanced training in anatomical methods, intracellular recording, and knowledge of retinal circuitry required. Both positions are to perform intracellular recordings from mammalian retina *in vitro*. One position is to identify the morphology and physiology of ganglion cells that contribute to circadian rhythms. The other position is to determine how signal/noise ratios are established in ganglion cells. Reply to: **Research Assistant Professor Search Committee, Department of Neuroscience, University of Pennsylvania, 215 Stemmler Hall, Philadelphia, PA 19104-6074. Affirmative Action/Equal Employment Opportunity.**

POSITIONS OPEN

ASSISTANT PROFESSORS Molecular Biology or Molecular Genetics

Two **TENURE-TRACK FACULTY** positions for talented and highly motivated molecular biologists or molecular geneticists are available with a January 1996 start date. We are looking for candidates with outstanding training records and significant research accomplishments. Qualifications must include an earned doctorate in Biochemistry, Molecular Biology, or Molecular Genetics, and at least two years of postdoctoral training. Preference will be given to applicants with transferable NIH or NSF research grants. Successful candidates will be expected to develop independent research programs of international stature, to seek interactions and collaborations with other members of the Department, and to teach in both our Ph.D. and M.D. degree programs. Applicants should submit a résumé, a statement of research interests and plans, and the names and full addresses of three to five scientists who may be contacted for references. All materials should be sent to: **Prof. Kelvin J. A. Davies, Chair, Department of Biochemistry & Molecular Biology, The Albany Medical College, New Scotland Avenue, Albany, NY 12208. The Albany Medical College is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply and to identify themselves.**

UNIVERSITY OF CALIFORNIA SAN DIEGO

SCHOOL OF MEDICINE DEPARTMENT OF NEUROSCIENCES

The Department of Neurosciences is seeking applications and nominations for tenure-track or tenured positions at the **ASSISTANT, ASSOCIATE or FULL PROFESSOR** levels. The candidate must be an accomplished scientist and a recognized leader in cellular and molecular biological research related to the nervous system, with proven ability as a scholar and a teacher. The candidate's experience will dictate the level of appointment.

The candidate should enjoy interactions with colleagues both in the Department of Neurosciences and throughout the La Jolla community.

Applications should be submitted prior to September 1, 1995. Salary will be commensurate with rank and experience and will be based on University of California pay scales. Curriculum vitae and bibliography should be sent to: **Dr. Leon Thal, Department of Neurosciences, University of California San Diego, School of Medicine, 9500 Gilman Drive, La Jolla, CA 92093-0624.**

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

AVIAN ECOLOGIST/WILDLIFE BIOLOGIST

Tenure-track **ASSISTANT/ASSOCIATE PROFESSOR**. Must have Ph.D. requirements completed by start of employment (January 1996 or August 1996). Must have advanced training in avian ecology and wildlife biology and research experience in either field. Preference given to individuals with broad training in biology, experience in environmental impact assessment, and expertise working with ethnically diverse groups. Duties: teaching ornithology, wildlife biology, conservation biology, ecology, and general biology; developing courses; advising, supervising graduate student research; pursuing scholarly activity; serving on committees. Submit résumé, all transcripts, names of three references to: **M. Reihman, Chair, Biological Sciences, California State University, Sacramento, CA 95819-6077. Screening begins: 1 September 1995; deadline 2 October 1995. Affirmative Action/Equal Employment Opportunity.**

ASSISTANT PROFESSOR. The Agronomy Department, University of Florida, is seeking to fill a 12-month tenure-track position in Molecular Genetics/Plant Improvement. Successful applicant shall develop a research program interfacing between molecular genetics and plant breeding for improvement of peanuts and other crops of importance. Incumbent will use molecular approaches for manipulation of traits of economic importance, teach genetics and a course in area of specialization, and develop an active graduate education program. Send letter of application, curriculum vitae, transcripts, statement of research and teaching goals, and names, telephone numbers, and addresses of five references by September 15, 1995, to: **Dr. Rex L. Smith, P.O. Box 110760, University of Florida, Gainesville, FL 32611. The University of Florida is an Affirmative Action/Equal Employment Opportunity Employer. Minorities and women are encouraged to apply.**

POSITIONS OPEN

FACULTY POSITION IN NEUROSCIENCE

A **TENURE-TRACK** faculty position is available in the Department of Neuroscience at the University of Virginia Health Sciences Center.

We are seeking to recruit an individual with expertise in Cellular and/or Molecular Neuroscience.

We anticipate making this appointment at the **ASSISTANT PROFESSOR** level although applications from candidates at all levels will be considered.

Please send curriculum vitae, sample reprints, a description of research plans, and the names and telephone numbers of three references to:

Oswald Steward, Ph.D.

Professor and Chair

Department of Neuroscience

University of Virginia Health Sciences Center
Charlottesville, VA 22908

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

ASSISTANT PROFESSOR OF ORGANIC CHEMISTRY TENURE-TRACK

Massachusetts Institute of Technology
Department of Chemistry

The Department of Chemistry invites applications for a tenure-track position in Organic Chemistry. While the preferred level of appointment is at the rank of **ASSISTANT PROFESSOR**, applications for appointment at more senior levels are also welcome. Outstanding individuals with a strong commitment to research and teaching are encouraged to apply by arranging to have a curriculum vitae, a brief description of research plans, and three letters of recommendation sent to: **Professor Stephen J. Lippard, Department of Chemistry, 18-399, Massachusetts Institute of Technology, Cambridge, MA 02139-4307 by October 1, 1995.**

MIT is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women.

The Mayo Clinic Department of Laboratory Medicine and Pathology is seeking a **CO-DIRECTOR** for the Molecular Genetics Laboratory. The Molecular Genetics Laboratory currently offers a wide range of diagnostic assays for both inherited as well as neoplastic disorders, with an annual volume of approximately 3,500 cases. The successful candidate will have either an M.D. or Ph.D. degree with a minimum of two to three years of experience in clinical molecular genetics/molecular pathology. American Board of Medical Genetics certification or eligibility is desirable. The primary responsibility will be clinical, which will include interpretation and signing out of test results, troubleshooting of problems in the laboratory, participating in quality assurance programs, and the development of new tests and/or technology. This individual will also be expected to participate in, or develop, an active program in education (technologists, residents, fellows) and/or research. Rank and salary will be commensurate with experience. Applications should be received prior to August 25, 1995. Curriculum vitae, a cover letter detailing experience, future interests, and names of three individuals that can provide letters of recommendation should be sent to: **Stephen N. Thibodeau, Ph.D., Director, Molecular Genetics Laboratory, Mayo Clinic, 200 First Street SW, Rochester, MN 55905. FAX: 507-284-0043. Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.**

HOLLINGS CANCER CENTER

The Medical University of South Carolina (MUSC) College of Medicine has initiated a search for the position of **DIRECTOR** of the Hollings Cancer Center. Candidates must hold an M.D. degree and have documented clinical and scholarly activities of excellence in their field and have significant successful administrative experience. The director will be charged to further develop active clinical, research and teaching programs. Interested individuals should send curriculum vitae and names and addresses of three references to: **James F. Spann, M.D., Chairman, Hollings Cancer Center Search Committee, c/o Dean's Office, College of Medicine, MUSC, 171 Ashley Avenue, Charleston, SC 29425. Applications and nominations will be reviewed beginning immediately and the search will continue until a suitable candidate is selected. An Equal Opportunity/Affirmative Action Employer.**

Senior Scientists



Sequana Therapeutics, Inc., a Genomics Company dedicated to discovering and utilizing genetic information for the development of new therapies, is seeking senior scientists in the following areas:

GENETICS

Responsibility: Develop and implement a program in population genetics and pharmacogenetics.

Requirements: Ph.D. or equivalent in molecular biology; three years relevant postdoctoral experience in population genetics and computational analysis; extensive background in detection and development of genotyping assays in candidate genes.

CODE: SciPharm

PHYSICAL MAPPING

Responsibility: Direct a team of investigators with the goals of mapping and cloning complex disease genes.

Requirements: Ph.D. or equivalent in molecular biology; minimum three years of postdoctoral experience in mammalian genome analysis; substantial experience in molecular genetics and genome analysis, including large insert cloning vectors (YACs, BACs and PIs), contig assembly and gene identification technologies.

CODE: SciPM

SEQUENCING

Responsibility: Direct a small group involved in developing sequence-based mutation detection technologies and undertaking high-throughput mutation screens in mammalian genomic DNA.

Requirements: Ph.D. or M.S. or equivalent in molecular biology; extensive experience in mutation detection methods including SSCP, DGGE and direct DNA sequence analysis techniques; minimum three years of directly related experience.

CODE: SciSeq

Sequana Therapeutics, located in beautiful La Jolla, California, is part of a research community which includes Scripps Research Institute, UCSD and the Salk Institute. We offer a highly competitive salary plus stock options, and relocation assistance where appropriate. Please mail or fax CV to Sequana Therapeutics, Inc., ATTN: HR-[CODE]. Equal Opportunity Employer.

11099 North Torrey Pines Road, Suite 160, La Jolla, CA 92037 • Fax: (619) 452-4378



SCIENTIST



Genentech's Manufacturing Science Department is seeking a scientist with a Ph.D in microbial physiology, microbiology, cell biology, protein biochemistry or similar area to join its group. Responsibilities include working with the Process Science, Manufacturing and Engineering

departments to continue process optimization and identify and solve fermentation and cell culture process problems for Genentech's commercial products. This scientist will also develop an understanding and methodology for future process improvements and problem prevention.

In addition to an appropriate Ph.D degree, candidates must have experience in technical supervision and fermentation/cell culture process development. Demonstrated ability to lead and conduct an independent research program as well as the ability to work productively with a wide range of scientists and colleagues from departments such as Process Sciences, Manufacturing, QA, QC and Regulatory Affairs are essential.

Genentech offers an excellent salary and benefits package to full time employees that includes fully paid medical/dental/vision coverage, free health club membership, and Company stock purchase opportunities. For immediate consideration, please send your resume to Genentech, Inc., Human Resources Dept. JJSA, 460 Pt. San Bruno Blvd., South San Francisco, CA 94080. Genentech is an Equal Opportunity Employer. We value the contributions of our diverse workforce.

Genentech, Inc.

BIOMEDICAL ENGINEER

The National Center for Research Resources, part of the National Institutes of Health in Bethesda, MD, is recruiting for a Biomedical Engineer, either at the GS-12 or GS-13 level. The starting salary for a GS-12 is \$43,365, and for a GS-13, \$51,557.

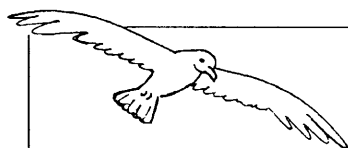
The incumbent provides computational expertise in scientific data analysis, image processing and image manipulation mostly using IDL, but also C, C++ or other software packages. Oversees the Center's Local Area Network (LAN) and connections with all Nuclear Magnetic Resonance (NMR) instruments.

This person should have knowledge of LAN; knowledge of advanced data processing language; knowledge of NMR physics, including NMR imaging and instrumentation.

For further information and qualification requirements contact:

Mr. Eugene McDougal
NATIONAL CENTER FOR RESEARCH RESOURCES
NATIONAL INSTITUTES OF HEALTH
Building 31/Room 3B38
9000 Rockville Pike
Bethesda, MD 20892-2130
Telephone: (301) 496-1524
Fax: (301) 402-2110

NIH is an Equal Opportunity Employer



Brookhaven Protein Data Bank

BIOLOGICAL DATABASE SPECIALIST

The Protein Data Bank (PDB) at Brookhaven National Laboratory is seeking a scientist with significant database experience to head its database development group with the responsibility to design, develop and maintain database systems for the overall management and public distribution of the PDB archives. Candidates should have a PhD in natural sciences or computer science and/or extensive experience in building and managing biological databases. They should be proficient in modern database technology, have a broad understanding of database theory and design, broad knowledge of existing biological information resources and of current developments in structural biology, as well as have an understanding of biologists' information demands. Practical experience with relational databases is necessary, and an interest in object-oriented technology is desirable. Working knowledge of the SYBASE database management system and associated development tools is essential.

The PDB is an archive of experimentally determined three-dimensional structures of proteins, nucleic acids, and other biological macromolecules with a 24-year history of service to a global community of researchers, educators, and students in a variety of scientific disciplines. The common interest shared by this community is a need to access information that can relate the biological functions of macromolecules to their 3-dimensional structures. The recent explosive growth of structural information of biological macromolecules has been accompanied by increased demand for such information. The challenge facing the PDB is to keep abreast of the increasing flow of data, to maintain the archive as error-free as possible, and to organize and present this information in ways that will facilitate data retrieval, knowledge exploration, and hypothesis testing, without interrupting current services.

Brookhaven National Laboratory (BNL) is a multiprogram research organization involved in basic and applied research in the physical, biomedical and environmental sciences and in selected energy technologies. BNL is operated by Associated Universities, Inc., a non-profit management corporation, under the terms of a prime contract with the U.S. Department of Energy.

Applicants should submit a curriculum vitae, publication list, and the names and addresses of at least three professional references to: Dr. Joel L. Sussman, Head, Protein Data Bank, Biology Department, Building 463, Brookhaven National Laboratory, Associated Universities, Inc., Upton, L.I., New York, 11973. BNL is an equal opportunity employer m/f/d/v.

bnl BROOKHAVEN
NATIONAL LABORATORY
ASSOCIATED UNIVERSITIES, INC.

at the center of science, beside the sea

NORTH SHORE UNIVERSITY HOSPITAL IN MANHASSET

Supervisor

Viral Vector Laboratory

North Shore Health System, Long Island's most prominent healthcare network, offers an exceptional opportunity for an individual to oversee ongoing operations of a laboratory engaged in human gene therapy. This soon to be opened laboratory, located at North Shore University Hospital in Manhasset, will operate under GMP's and strictly adhere to FDA regulations.

Initial projects, in conjunction with the Division of Hematology/ Oncology, will focus on therapeutic methods of treatment for breast cancer. Qualified candidates should possess a Ph.D. or equivalent and a minimum of 5 years experience in a similar research laboratory setting. Experience with GMP's desirable.

We offer a competitive salary and professional benefits package. For consideration, respond by resume to: Robert Pergolizzi, Ph.D., Director of Molecular Genetics, Biomedical Science Research Center, North Shore University Hospital, 300 Community Drive, Manhasset, NY 11030.

We are an Equal Opportunity Employer M/F/D/V.

**WE INVITE THE BEST
TO JOIN THE BEST.**



**NORTH SHORE
HEALTH SYSTEM**

Advertising Supplement

Announcing the 3rd Annual BS/MS Careers Issue

25 August 1995

Each year Science publishes a special advertising supplement devoted to BS and MS level scientists. In this year's issue, we will examine career opportunities and academic programs.

Full page advertisements receive bonus distribution to top biology and chemistry programs in the U.S.

Run a full page ad and reach our regular subscriber base of over 161,000, plus receive bonus distribution of the special reprint of the BS/MS advertising section to students in the top biology and chemistry programs around the U.S.*.

Advertise on the Internet.

The BS and MS advertising supplement will be posted on the Internet on Science JOBNET, Science classified advertising online. Plus, Science JOBNET is now listed on the World Wide Web sites of more than 20 U.S. colleges and universities.

Reach eligible minority students.

When you advertise in the BS/MS Careers Issue your advertisement will get special distribution to U.S. colleges and universities with historically high minority enrollment.

Placing your ad is easy!

U.S., call Janis Crowley: (212) 496-7704; fax (202) 682-0816.
Europe, Gordon Clark: (+44) 0223 302 067; fax: 0223 576 208.

Advertising Space Reservation Deadline: 8 August 1995.

*The Nation's top schools for Biological Sciences, various Chemistry disciplines and Clinical Medicine ranked by the Institute for Scientific Information's *Science Watch*, as well as the top 20 schools from U.S. News & World Report's Annual America's Best Colleges issue.

WOUND REPAIR RESEARCH

The mission of Human Genome Sciences is to identify and develop drugs and diagnostic products based on its leadership in the discovery and expression of novel genes from human and animal origin.

This position primarily involves the development of pre-clinical small animal models for a wide variety of activities and/or diseases. This candidate will be expected to take proteins with demonstrated desirable in vitro activities and characterize them further both in vitro and in appropriate animal models. The focus of this effort will be on wound repair although additional effort will also be expected in immunology, hematopoietic and other areas as the need arises. A willingness to be creative in animal model development is essential.

In addition, the candidate is expected to collect, analyze and report data on these findings in a professional and efficient manner with little or no supervision. Position requires the ability to think and work independently and to work closely with a large group of committed scientists in broad areas of research. Requires at least 3 years of laboratory experience in related field and demonstrated record of past performance. Ph.D. in related field such as pharmacology, physiology or immunology is necessary.

HGS encourages the pursuit of academic excellence and offers a comprehensive benefits package including medical/dental insurance, 401(k) and tuition reimbursement. For immediate consideration, please send your curriculum vitae to Human Resources Department, MA7/21, Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, MD 20850, FAX: (301) 309-1845. An equal opportunity employer.



HGS

Human Genome Sciences, Inc.

Dedicated To Discovery For Health

INTERDISCIPLINARY SCIENTIST

The National Center for Research Resources, part of the National Institutes of Health in Bethesda, MD, is recruiting for a Interdisciplinary position for a Structural Cell Biologist (Ph.D. or M.D.) at the GS-14 or GS-15 level. The salary range for a GS-14 is \$60,925 to \$79,200; a GS-15 is \$71,664 to \$93,166 (a comparability allowance of up to \$20,000 would be applicable to an M.D.). The incumbent conducts collaborative research with members of the NIH intramural research program and independent research and development in diverse areas need to support the intramural research program, such as imaging cell membranes, organelles and the cytoskeleton, and capturing various cellular processes by quick freezing. The successful candidate must have demonstrated major research accomplishments in determining the structure of non-crystallized protein assemblies by electron microscopy. Expertise is required in advanced shadowing techniques and cryogenic methods for preserving native structures.

For further information and qualification requirements contact:

Mr. Eugene McDougal

NATIONAL CENTER FOR RESEARCH RESOURCES

NATIONAL INSTITUTES OF HEALTH

Building 31/Room 3B38

9000 Rockville Pike

Bethesda, MD 20892-2130

Telephone: (301) 496-1524

Fax: (301) 402-2110

NIH is an Equal Opportunity Employer

POSITIONS AVAILABLE

The National Center for Genome Resources is looking for individuals to fill the following positions:

Senior Biologist/Director of Biology

The successful candidate will possess: a Ph.D. in molecular biology, genetics or a related field, minimum of five years relevant postdoctoral experience, expertise in gene expression, molecular diagnostics, or biochemical pathways, and demonstrated successes in management and team development. Biotechnology or related industry experience a plus.

This position will report to the Vice President of Scientific Affairs, assume responsibility for building and managing a diverse team of biologists and biochemists, and be a key contributor to product strategy and bioinformatics product design.

Team Leader, Curation and Data Quality

Applicants will have a Ph.D. in molecular biology, genetics, biochemistry, biology or related field, laboratory experience, knowledge of and facility with SQL and experience in relational database curation and user support. This individual will report to the Director of Biology and supervise the curation and data quality team. The successful candidate will be a self-starter with excellent communication skills.

Postdoctoral Positions

Major emphasis will be on the design of database applications for genomic and functional biology information and interfaces enabling biologists to easily understand and manipulate information in these databases.

Experience in gene expression pathways, human disease genes, sequence diversity or genome organization, and knowledge of Perl, HTML and SQL is highly desirable for these two year renewable positions.

Salaries for all positions are competitive and commensurate with experience and expertise.

Applicants should send curriculum vitae, full publication list, recent reprints, and names, addresses, e-mail addresses, and phone numbers of references to:

Search Committee
National Center for Genome Resources
 1800 Old Pecos Trail
 Santa Fe, New Mexico 87505
 Office (505) 982-7840 Fax (505) 982-7690
 mh@ncgr.org

EOE

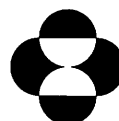
BIOCHEMIST/CHEMICAL or BIOCHEMICAL ENGINEER

Merck Research Laboratories in West Point, Pennsylvania, a world leader in biological and pharmaceutical research, has an immediate opening for a biochemist/chemical or biochemical engineer in the department of Vaccine Bioprocess R&D working on vaccine purification development.

A B.S. or M.S. degree in chemical or biochemical engineering or equivalent with experience in biochemistry is required. Practical experience in protein purification and scale-up is desirable. This individual should be strongly motivated and able to work independently as well as in a team environment.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia.

Please send curriculum vitae with cover letter to:
Personnel Manager, Ad # B-27, MRL Human Resources,
WP42-2, Merck Research Laboratories, P.O. Box 4,
West Point, PA 19486. EEO/AA/V/Employer.



MERCK

Research Laboratories

POSITIONS OPEN

CHAIRPERSON

Biochemistry and Molecular Biology

New York Medical College is seeking an outstanding individual to head its Department of Biochemistry and Molecular Biology. The **CHAIR** is responsible for developing strong research activities as well as successful programs for training medical and graduate students. Significant resources including start-up funds, modern laboratory space and salary support for the recruitment of new faculty members will be available to the new Chair. New York Medical College is located on an attractive campus in suburban Westchester County within 30 minutes of the cultural and educational resources of New York City. Submit nominations and applications including curriculum vitae, current funding, and names of three references to:

Dr. Joseph D. Etlinger
Professor and Chairman

Department of Cell Biology and Anatomy
New York Medical College
Valhalla, NY 10595

An Equal Opportunity Employer

ENDOWED CHAIR IN PHARMACOLOGY UNIVERSITY OF CALIFORNIA, IRVINE

Applications are invited for the Eric L. and Lila D. Nelson **ENDOWED CHAIR** in the Department of Pharmacology at UC Irvine. We seek an internationally recognized scholar in molecular neuropharmacology with an outstanding record of research accomplishment. Other qualifications include an M.D. and/or Ph.D. in pharmacology or a related field and an interest and talent for teaching. The holder of the Chair will be appointed as Professor with tenure at the University of California. Curriculum vitae, references, and a summary of research interests should be sent to: **Nelson Endowed Chair Search Committee, Department of Pharmacology, College of Medicine, University of California, Irvine, Irvine, CA 92717.** *University of California, Irvine is an Affirmative Action/Equal Opportunity Employer.*

KANSAS STATE UNIVERSITY TENURE-TRACK ASSISTANT PROFESSOR POSITION (12 MONTHS)

Responsibilities: Scientist with innovative research program to study the biomolecules present in cereals, legumes and oilseeds, with objective of developing novel and economically enhanced uses for those commodities. This position is expected to: develop value added research program; seek and obtain extramural support to underwrite the program; direct graduate research; publish results; develop, teach undergraduate and graduate courses. Qualifications: Ph.D. in a range of different disciplines could qualify for this position including: food, chemical or agricultural engineering; organic, physical or biochemistry; grain or food science; physics or other scientific field. Relevant postdoctoral and/or industrial experience is desirable, as well as experience in writing grants. Oral, written communication skills essential, university teaching experience desirable. Available: Screening of applications begins September 1, 1995, until position is filled. Applicants requested to submit curriculum vitae, transcripts, publication list with complete citations, three letters of recommendation to: **Dr. Richard Hahn, Head, Department Grain Science and Industry, 201 Shellenberger Hall, Manhattan, KS 66502-2201.** *Kansas State University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT/ASSOCIATE PROFESSOR BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Department of Biochemistry and Molecular Biology of New York Medical College invites applications for a tenure-track **FACULTY POSITION**. Responsibilities will include teaching of medical and graduate students and the establishment of a vigorous research program. We seek to complement present departmental research in neurobiology, physical biochemistry and cell signaling, but applicants with interests in all areas of biochemistry and molecular biology will be considered. Strong preference will be given to applicants with established, funded research programs. Send curriculum vitae, description of research activities and three letters of reference to: **Dr. Ira Schwartz, Department of Biochemistry and Molecular Biology, New York Medical College, Valhalla, NY 10595.** Email: schwartz@nycm.edu.

POSITIONS OPEN

FACULTY POSITIONS VASCULAR BIOLOGY

The Department of Medical Physiology and Microcirculation Research Institute of the Texas A&M University Health Science Center invites applications for tenure-track **ASSISTANT PROFESSOR** positions. Individuals with backgrounds in molecular and cell biology of cardiovascular tissue are encouraged to apply. Preference will be given to candidates with demonstrated expertise in the molecular basis of vascular function. The successful candidate is expected to develop a nationally recognized laboratory in his/her field of research, and to contribute to the medical and graduate education missions of the department. An intercollegiate group of cardiovascular scientists offers substantial opportunities for collaboration at molecular, cellular, organ and system levels of integration. The department is located on the main campus of one of the leading research universities in the South and Southwest. Molecular and cell biology is a major university-wide emphasis area. Applicants should send a curriculum vitae, names of three references and a statement of career goals to: **Dr. Harris J. Granger, Professor and Head, Department of Medical Physiology, Texas A&M University Health Science Center, College Station, TX 77843-1114.** *Texas A&M University is an Affirmative Action/Equal Opportunity Employer committed to diversity.*

TENURE-TRACK POSITION NEUROBIOLOGY OF AGING

The University of Kansas Medical Center (KUMC) is seeking applications and nominations for a new **FACULTY POSITION** in the Center on Aging and an appropriate basic science department. The successful candidate will be a cellular, molecular or integrative neuroscientist with a Ph.D., M.D., or equivalent degree and a strong research program relating to neuroplasticity and functional recovery from neuronal injury. This individual will hold a position of scientific leadership and facilitate the integration of pre-existing Center on Aging clinical research programs in rehabilitation with a strong neuroscience group whose interests include neuronal death, plasticity, pathogenesis, motor control and development. The appointment may be at any level, though individuals with established programs relevant to aging will be given preference. Send curriculum vitae, a statement of research interest, and names and addresses of three references to: **Stephanie Studenski, M.D., M.P.H., Director, Center on Aging, University of Kansas Medical Center, 3901 Rainbow Boulevard, Kansas City, KS 66160-7117.** *KUMC is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.*

ASSISTANT PROFESSOR Plant Tissue Culture and Cytogenetics

The Biology/Microbiology Department at South Dakota State University invites applicants for a tenure-track, 12-month, 70% Academic Programs and 30% Agricultural Experiment Station funded appointment. Instructional responsibilities include plant tissue culture, cytogenetics and involvement in plant physiology or cell biology program. Successful candidate will develop a collaborative research program; further research on the use of plant tissue culture technologies in plant breeding programs; pursue extramural funding support; maintain a good publication record; participate in faculty committees; and advise undergraduate and graduate students. Earned Ph.D. in biological sciences or closely related area; experience in plant tissue culture technologies, cytogenetics and plant physiology or cell biology; demonstrated effective interpersonal and communication (verbal and written) skills; and minimum of one year of postdoctoral research experience are required. Preference given to candidates with demonstrated effectiveness in teaching; high productivity in research; broad background in plant sciences, breeding and genetics; and potential and desire for developing collaborative teaching and research programs with other departments such as Plant Science and Horticulture, Forestry, Landscape and Parks. Send letter of application, curriculum vitae, separate statements of teaching and research interests, copy(ies) of transcripts, documentation of qualifications related to the position's expectations and have three letters of professional reference sent to: **Dr. Charles McMullen, Department of Biology and Microbiology, South Dakota State University, Box 2207B, Brookings, SD 57005.** Telephone: 605-688-6141. Call or write for additional information. Review of applications will start October 1, 1995, and the position will remain open until filled. Starting date is July 1, 1996. *Affirmative Action/Equal Opportunity Employer/ADA reasonable accommodations 605-688-6361 (TDD/Voice 605-688-4394).*

POSITIONS OPEN

STAPH/STREP MICROBIOLOGIST

The Department of Ophthalmology, Baylor College of Medicine, seeks applicants for a **TENURE-TRACK FACULTY** position to develop a basic research program in the molecular pathogenesis of bacterial eye infections. Candidates should have experience in the adherence and invasion mechanisms of gram-positive cocci. Applicants should send their curriculum vitae, a statement of research interests, and the names of three references to: **K. R. Wilhelmus, M.D., Cullen Eye Institute, 6501 Fannin, NC200, Baylor College of Medicine, Houston, TX 77030.** *Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

HERPES SIMPLEX VIROLOGIST

The Department of Ophthalmology, Baylor College of Medicine, seeks applicants for a **TENURE-TRACK FACULTY** position to develop a basic research program in the molecular pathogenesis of viral eye infections. Candidates should have experience in the neurobiological factors that trigger recurrences. Applicants should send their curriculum vitae, a statement of research interests, and the names of three references to: **K. R. Wilhelmus, M.D., Cullen Eye Institute, 6501 Fannin, NC200, Baylor College of Medicine, Houston, TX 77030.** *Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

Biology. Sacred Heart University, situated in Fairfield County, Connecticut, serving 5,600 students has **TENURE-TRACK POSITIONS** open for: Vertebrate Biologist/Ecologist to teach Ecology, Vertebrate Biology, Concepts in Biology, Ecology Electives; and Anatomist Physiologist/Neurobiologist to teach Anatomy and Physiology, Neurobiology, Concepts in Biology. Both positions require Ph.D. and supervision of undergraduate research. Send letter of application including teaching philosophy, résumé, transcripts and three letters of recommendation to: **Dr. Babu George, Chairperson, Faculty of Science, Math and Computer Science, Sacred Heart University, 5151 Park Avenue, Fairfield, CT 06432.** FAX: 203-371-7888; Email: schofiel@shu.sacredheart.edu. *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately to investigate the neurobiology of cocaine reinforcement with respect to receptor systems and brain regions associated with stress and the activation of the hypothalamo-pituitary-adrenal axis. In addition, the effects of environmental stress on the acquisition and maintenance of cocaine reinforcement as well as the effects of stress on drug-induced changes in cocaine self-administration will also be investigated. Send curriculum vitae and the names of three references to: **Dr. Nick E. Goeders, Department of Pharmacology and Therapeutics, LSU Medical Center, P.O. Box 33932, Shreveport, LA 71130-3932.** *Louisiana State University Medical Center is an Affirmative Action/Equal Employment Opportunity Employer.*

POSTDOCTORAL FELLOWSHIP IN MOLECULAR GENETICS

Attractive position to carry out DNA linkage studies and positional cloning on large families with osteoarthritis, osteoporosis and related conditions. First stage of the project involves phenotype documentation, development of family DNA registries, development of databases, and analysis of DNA linkage data. Second stage involves analysis of candidate genes for mutations and positional cloning. Ph.D. in molecular biology or related field required. Experience with molecular genetics and computer literacy helpful. Salary competitive. Qualified applicants may send résumé with cover letter and individuals to contact for references to: **Dr. D. J. Prockop, Thomas Jefferson University, Department of Biochemistry and Molecular Biology, 233 South 10th Street, Philadelphia, PA 19107.** FAX: 215-955-5393. *Equal Opportunity Employer. Smoke-free environment.*

POSTDOCTORAL RESEARCH ASSOCIATES

Two **RESEARCH ASSOCIATE** positions are available September 1, 1995. One involves the study of protein kinase C and its substrates in central nervous system development; a Ph.D. in developmental or neurobiology and experience with biochemical and molecular biological techniques are desirable. The other involves protein kinase regulation of transcription factor function and subcellular localization; a Ph.D. in molecular or cellular biology or biochemistry is desirable. Please send curriculum vitae and the names of three references to: **Dr. P. J. Blackshear, Box 3897, Duke University Medical Center, Durham, NC 27710.** *An Equal Opportunity Employer.*

Gene Medicines For Controllable Gene Therapy

GENEMEDICINE, INC. is developing non-viral gene therapy products through corporate partnerships. We wish to appoint highly motivated and qualified professionals for the following key positions:

Scientists- Gene Delivery

We seek accomplished pharmaceutical scientists to join the **GENEMEDICINE** team of researchers engaged in creating, characterizing and optimizing novel, non-viral gene delivery systems. Candidates should understand the biological challenges associated with different routes of administration (e.g. pulmonary, intravascular, intramuscular and intratumoral) and have successfully designed, formulated and scaled-up innovative delivery systems based upon lipids, peptides or polymers.

We also seek bioanalytical scientists and physical chemists experienced in characterizing the colloidal properties of particulate delivery systems, preferably non-viral gene delivery systems. These candidates should have demonstrated expertise in the physiochemical characterization of macromolecules.

Successful candidates will have worked within interdisciplinary teams, possess superior verbal and written communication skills and will have a Ph.D. with at least one year of post-doctoral experience or an M.S. with at least two years experience.

GENEMEDICINE, INC., offers career growth and highly competitive compensation packages. For confidential consideration please send a resume to: **GENEMEDICINE, INC.**, Attn: Human Resources, 8301 New Trails Drive, The Woodlands, TX 77381-4248, or fax to: (713) 364-0858.



GENEMEDICINE, INC.

Roche

PROTEIN BIOCHEMIST

At Hoffmann-La Roche, the strength of our research efforts have made us a leader in the pharmaceutical and health care industries. Right now, we're looking for a dedicated Biochemist to join us at our Nutley, NJ campus.

Working in an interdisciplinary environment, the successful candidate will participate in the recovery/purification processes of recombinant proteins and polymer-conjugated biotherapeutics. Additional responsibilities will include designing and implementing innovative bioprocessing technologies and facilitating their transfer to manufacturing as needed.

To qualify, you will need a Ph.D. in Biochemistry, Biology, Biochemical Engineering or related field, with a strong background in protein biochemistry, chromatography methods development, scale-up and automation. Computer and effective written and oral communication skills are a must, knowledge of polymer chemistry, GLP and cGMP procedures is desired.

We offer a competitive salary, a progressive benefits package and opportunities to have an impact on an important industry. For consideration, please send your resume and salary history to: **Ms. Lynn Harac, Staffing Dept. LH175PB, Hoffmann-La Roche, Nutley, New Jersey 07110-1199. Principals Only. NO PHONE CALLS PLEASE.** We are an equal opportunity employer.

Roche

Hoffmann-La Roche

A Member of the Roche Group

APPLICATIONS AND NOMINATIONS ARE INVITED FOR THE POSITION OF

DEAN COLLEGE OF VETERINARY MEDICINE MICHIGAN STATE UNIVERSITY

Michigan State University invites applications and nominations for the position of Dean, College of Veterinary Medicine, Michigan State University. An individual is sought who will provide leadership for the continuing excellent development of instructional, research, clinical, and outreach programs, and who will serve as a representative of the college in its interactions with other MSU colleges, the public, the legislature, and the veterinary community. The Dean of the College of Veterinary Medicine is the chief executive officer and is responsible to the provost and the president for the general administration of the college.

Michigan State University enrolls approximately 40,000 students and is a research-intensive land-grant institution with 14 colleges, including the Colleges of Human and Osteopathic Medicine. Its 5,000-acre park-like campus is widely recognized as one of the most beautiful in the nation. The College of Veterinary Medicine consists of the Departments of Large and Small Animal Clinical Sciences, and the shared Departments of Anatomy, Microbiology, Pathology, Pharmacology and Toxicology, and Physiology. In addition, the college contains the Animal Health Diagnostic Laboratory and the Veterinary Teaching Hospital, which are situated in a modern, state-of-the-art facility. The college's \$25 million all-funds budget supports approximately 150 ranked faculty and 220 support staff. The 400 veterinary medical students and 60 graduate students are enrolled in the DVM professional program, MS and PhD programs, or intern and residency programs in various clinical specialties. There is also a baccalaureate program in Veterinary Technology. Both the DVM and the Veterinary Technology programs are fully accredited by the AVMA.

Applicants must have the DVM degree (or its equivalent), and a doctorate is preferred. A demonstrated commitment to research, teaching, clinical service, and outreach is necessary. Evidence of scholarship and dynamic leadership is essential. Candidates must meet standards for appointment at the rank of professor (with tenure) in an academic department in the college. Women and minorities are encouraged to apply. Expected starting date is July 1, 1996, or as soon as possible thereafter.

Handicappers have the right to request and receive reasonable accommodation.

Applications and nominations are requested as soon as possible, and preferably by October 1, 1995. The committee will begin evaluation of applications immediately after Labor Day (September 5, 1995), so an early submission is desirable.

Applications and nominations should be sent to:

**Dr. David J. Sprecher, Chairperson
Search and Rating Committee for Dean
College of Veterinary Medicine
Michigan State University
312 Administration Building
East Lansing, MI 48824**

MSU is an Affirmative Action/Equal Opportunity Institution

POSITIONS OPEN

POSTDOCTORAL FELLOW

POSTDOCTORAL POSITION: A position is available to conduct research in immunology with a special emphasis on latex allergy. The position requires experience in immunology, cell biology or molecular biology. Candidates should send curriculum vitae and the names of two references to: **Dr. Donald H. Beezhold, Laboratory of Macrophage Biology, Guthrie Research Institute, 1 Guthrie Square, Sayre, PA 18840.**

BLAUSTEIN POSTDOCTORAL FELLOWSHIP

The Jacob Blaustein International Center for Desert Studies

A **TWO-YEAR FELLOWSHIP**, to be taken up on October 1, 1996, is available for basic or applied research in physical, life or social sciences in arid zones. Deadline for application is December 31, 1995. A decision will be announced by February 15, 1996. Please send curriculum vitae, letter describing research interests, and have three letters of reference forwarded to: **Prof. Joseph Gale, The Jacob Blaustein Institute for Desert Research, Ben Gurion University of the Negev, Sede Boker Campus, 84990 Israel. FAX: 972 (7) 555-058.**

HARVARD UNIVERSITY

Postdoctoral Positions in Genetics and Molecular Biology

Available to study the genetic control and inducibility of recombination in human cells and *in vivo* in transgenic mice (*Science* 266:1573, 1994). Molecular biology experience required; cell culture and/or mouse breeding experience preferred. Please send curriculum vitae to: **Dr. Robert H. Schiestl, Department of Molecular and Cellular Toxicology, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.**

POSTDOCTORAL POSITION available to study protein-RNA recognition and regulation of gene expression in HIV. Successful applicant should be willing to aggressively exploit both biological and chemical techniques. Ph.D. in biochemistry or chemistry required. Strong molecular biology background desirable. Send curriculum vitae and three letters of reference to: **Dr. Tariq M. Rana, Department of Pharmacology, UMDNJ-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635. Email: rana@rutgers.edu. University of Medicine and Dentistry of New Jersey is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately to study signal transduction and the regulation of transcription (see *Genes Dev.*, 8:2527, 1994; *J. Biol. Chem.*, 269:28662, 1994; *Mol. Cell. Biol.*, 15:3531, 1995). Experience in biochemistry and/or molecular biology desirable. Send curriculum vitae and names of three references to: **Dr. Richard Maurer, Cell and Developmental Biology, L215, Oregon Health Sciences University, Portland, OR 97201-3098. FAX: 503-494-4253; Email: maurerr@ohsu.edu.**

Oregon Health Sciences University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION in Molecular Biology: Available immediately to study the role of oncogenes in breast cancer. Candidates with Ph.D. and experience in molecular biology, gene expression and prior knowledge/experience with oncogenes and transgenic animal models will be preferred. Send curriculum vitae and names and addresses of three references to: **Dr. Rajeshwar Rao Tekmal, Department of Gynecology and Obstetrics, Emory University School of Medicine, P.O. Box 21246, Atlanta, GA 30322-4710. Email: rtekmal@emory.edu. An Equal Opportunity/Affirmative Action Employer.**

A **POSTDOCTORAL POSITION** is immediately available utilizing biochemical, cellular and molecular biology techniques to identify and characterize growth factors that regulate heart development. Previous experience in retroviral/adenoviral construction for gene transfer and expression in embryonic tissue is desirable. Applicant should be a recent Ph.D. Please send or FAX curriculum vitae containing names of references to: **Dr. John Lough, Department of Cellular Biology and Anatomy & Cardiovascular Research Center, Medical College of Wisconsin, Milwaukee, WI 53226. FAX: 414-266-8496; Email: jlough@post.its.mcu.edu. Medical College of Wisconsin is an Equal Opportunity/Affirmative Action Employer/Minority/Female/Disabled/Veteran.**

POSITIONS OPEN

MEMBRANE TRANSPORT

POSTDOCTORAL POSITIONS are available for studies of the molecular structure and mechanism of a P-type ATPase. The neurospora plasma membrane H⁺-ATPase has been crystallized and its structure is emerging. A high yield ATPase expression system is also available. Research will involve both biochemical and molecular biological approaches. Send curriculum vitae and names of three references to: **Dr. Gene A. Scarborough, Department of Pharmacology, CB No. 7365, FLOB, University of North Carolina, Chapel Hill, NC 27599. Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS

Positions are available to study the molecular mechanisms and immunoregulation of autoimmunity in arthritis, and the cellular mechanisms of pathological bone resorption. These projects include screening of mouse genome, knock out of genes, signal transduction and several aspects of molecular immunology. Recent Ph.D., M.D. or Ph.D./M.D. with experience either in cell biology, molecular biology, immunology, protein chemistry or genetic analysis is required. Send curriculum vitae and the names and addresses of three academic references to: **Prof. Tibor T. Glant, Department of Biochemistry, Rush Medical University at Rush Presbyterian-St. Luke's Medical Center, 1653 West Congress Parkway, Chicago, IL 60612.**

POSTDOCTORAL RESEARCH POSITION: The North Carolina Cooperative Fish and Wildlife Research Unit (North Carolina State University) and Patuxent Environmental Science Center (National Biological Service) invite applications for a biostatistician or a population/community ecologist to develop statistical inference methods for use in animal community ecology. Methods will be based on various kinds of animal count statistics, and will involve estimation of species richness and local rates of extinction, colonization and turnover. The position will extend for a minimum of one year. For further information, contact: **Jim Nichols, National Biological Service, Patuxent Environmental Science Center, 11410 American Holly Drive, Laurel, MD 20708-4015. Email: Jim.Nichols@NBS.GOV; or Ken Pollock, Department of Statistics, Box 8203, North Carolina State University, Raleigh, NC 27695-8203.**

POSTDOCTORAL POSITION

CELLULAR NEUROPHYSIOLOGY

A two-to-three year position is open for research in the study by electrophysiological methods of synaptic properties of neurons in culture and in slices after gene transfer of appropriate ion channel and/or receptor genes. Experience in single cell electrophysiology essential; molecular biology helpful. You will be joining a group of 20 scientists engaged in the study of ion channels, neurotransmitter receptor and transporter function by molecular genetic methods. Salary range \$24,000 to \$30,000 per annum. Send or FAX a curriculum vitae, a short statement of research experience and interests, and names of three references to: **Dr. Norman Davidson, Division of Biology, 156-29, California Institute of Technology, Pasadena, CA 91125. FAX: 818-564-8709. Caltech is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.**

POSTDOCTORAL POSITION available November 1, 1995, to study neuronal intracellular calcium. Person with expertise in biochemistry or molecular biology desired to examine the interaction of calcium with cellular components, such as neurofilaments, endoplasmic reticulum and mitochondria. Applicants should send curriculum vitae, names of three references and summary of research interests to: **Dr. Ronald Abercrombie, Department of Physiology, Emory University School of Medicine, Atlanta, GA 30322. Email: ron@physio.emory.edu. Emory University is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION: Available immediately, to work on physiology and anatomy of dorsal horn cells, in studies of somatotopy, plasticity, and sensory processing. Send curriculum vitae, description of research interests and plans, and list of three references to: **Paul Brown, Physiology Department, Health Sciences Center, West Virginia University, Morgantown, WV 26506. Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION available to study dynamin and other proteins important for synaptic vesicle formation in *C. elegans*. We are looking for a molecular geneticist with an interest in basic cell biological questions. Experience with molecular biology and protein analysis is desirable. Please send résumé and three letters of recommendation to: **Alex van der Bliek, Department of Biological Chemistry, UCLA School of Medicine 33-257 CHS, 10833 Le Conte Avenue, Los Angeles, CA 90024. Email: avanderb@biochem.medsch.ucla.edu.**

POSTDOCTORAL POSITION is available immediately in Immunology to study cellular immune responses to HIV infection in humans and nonhuman primates. Studies will address issues in cellular immunology, immunogenetics and molecular virology. Send curriculum vitae and three letters of reference to: **Dr. Norman L. Letvin, Harvard Medical School, Beth Israel Hospital, RE-113, 330 Brookline Avenue, Boston, MA 02215. Equal Opportunity Employer.**

POSTDOCTORAL POSITION is available immediately in Microbial Biogeochemistry to study the physiology of magnetotactic bacteria and the molecular biology of the biogeochemical and biomineralization processes they catalyze. Previous experience in the use of radioisotopes is desirable, and experience in molecular techniques and a strong chemistry background are essential. Position is funded for approximately two years. Funds are also available for qualified graduate students. Send curriculum vitae and the names of three references to: **D. A. Bazylinski, Department of Microbiology, Immunology and Preventive Medicine, 207 Science I, Iowa State University, Ames, IA 50011. FAX: 515-294-6019.**

POSTDOCTORAL RESEARCH PROJECT available at the National Center for Toxicological Research (NCTR) near Little Rock, Arkansas. Research includes identification of mechanisms for acquisition of anchorage-independence by cells in culture after exposure to magnetic fields. This research will also involve independent design and execution of signal transduction and gene expression investigations. Degree received within last three years preferred. For application: **Postgraduate Research Program/NCTR, Science/Engineering Education Division, Oak Ridge Institute for Science and Education, P.O. Box 117, Oak Ridge, TN 37831-0117. Telephone: 615-241-5386.**

POSTDOCTORAL POSITION available immediately to study mechanisms of neuronal-specific gene expression. The focus of the lab has been the identification of transcription factors controlling the expression of a nerve growth factor-inducible, neural-specific intermediate filament protein. Candidates should have experience in molecular biology. Please send curriculum vitae, statement of research interests, and names of three references to: **Mary Ann Thompson, M.D., Ph.D., Department of Cell Biology, C-2210 MCN, Vanderbilt University School of Medicine, Nashville, TN 37232. FAX: 615-343-4539.**

Vanderbilt University is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available immediately in Experimental Pathology Division to investigate the role of the human metallothionein and heat shock genes in mediating toxicity. Recent Ph.D.'s with research experience and interest in the regulation of transcription/gene expression and the use of antisense techniques are encouraged to apply. A strong background in molecular biology is required. Send curriculum vitae and names and telephone numbers of three references to: **Dr. Don Sens, Robert C. Byrd Health Sciences Center, Department of Pathology, P.O. Box 9203, West Virginia University, Morgantown, WV 26506-9203. FAX: 304-293-6249. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION available to study DNA mismatch repair mechanism or telomere-length regulation. Projects include molecular cloning, DNA sequencing, PCR, protein purification, enzyme assay, and tissue culture. Training in biochemistry or molecular biology required. Send curriculum vitae and three letters of reference to: **Dr. A-Lien Lu-Chang, Department of Biological Chemistry, University of Maryland at Baltimore, 108 North Greene Street, Baltimore, MD 21201. Equal Opportunity/Affirmative Action Institution.**

CANCER PREVENTION FELLOWSHIP PROGRAM

The Division of Cancer Prevention and Control (DCPC), NCI, is accepting applications for the Cancer Prevention Fellowship Program (CPF). The purpose of this program is to train individuals from a multiplicity of health science disciplines in the field of cancer prevention and control. The program provides for: *Master of Public Health training* (at accredited university programs); *Participation in the DCPC Cancer Prevention and Control Academic Summer Course* (open to physicians and scientists interested in learning the principles and practice of cancer prevention and control); *Working at DCPC directly with individual preceptors* on cancer prevention and control projects; *Brief field assignments* in cancer prevention and control programs at other institutions. Funding permitting, Fellows will be accepted for up to three years of training, beginning July 1, 1996. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

Eligibility

M.D., D.D.S., or D.O. from a U.S., territorial, or Canadian Medical School. Foreign medical graduates must have current USMLE or ECFMG certification and appropriate experience, e.g., one year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

Or

Ph.D. or other doctoral degree in a related discipline (epidemiology, biostatistics, and the biomedical, nutritional, public health or behavioral sciences). Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

Plus

The applicant must be a U.S. citizen or resident alien eligible for citizenship within four years.

For details and an application catalog either call, fax or send a postcard or letter with your name, home address, and where you heard about the program to:

Douglas L. Weed, M.D., M.P.H., Ph.D., Director
Cancer Prevention Fellowship Program
Division of Cancer Prevention and Control
National Cancer Institute
Executive Plaza South, Suite T-41
6130 EXECUTIVE BLVD MSC 7105
BETHESDA MD 20892-7105

Further Inquiries: Mrs. Barbara Redding - tel: (301) 496-8640; fax: (301) 402-4863; email REDDINGB@dcpceps.nci.nih.gov

DEADLINE FOR RECEIPT OF APPLICATIONS: SEPTEMBER 1, 1995

NIH is an Equal Opportunity Employer

Assistant/Associate Professor in Microbiology and Immunology

The Department of Microbiology and Immunology, University of Illinois at Chicago, is seeking to fill a position at the level of Assistant or Associate Professor in the area of molecular immunology. Preference will be given to individuals applying at the Assistant Professor level. The successful candidate will be expected to develop a strong independent research program and participate in the multifaceted research and graduate training program of the Department. Generous laboratory space and start-up funds are available. Applicants should have a PhD or equivalent and at least two years of postdoctoral experience.

Applications should include a curriculum vitae, the names of three references and a brief statement of future research plans. Please send applications to:

Search Committee
University of Illinois at Chicago
Department of Microbiology/
Immunology (M/C 790)
835 South Wolcott
Chicago, IL 60612

The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity employer. Women and minorities are encouraged to apply.



The Division of Life Sciences in the College of Letters and Science at UCLA announces a search for a distinguished scholar and educator to assume the position of Chair of the new Department of Molecular, Cell and Developmental Biology. We are looking for a mid-career or senior-level scientist with a distinguished record of productivity, a strong desire to maintain an active and productive research program, and a commitment to undergraduate education. The faculty presently consists of 17 members, with strengths in all of the areas indicated in the name of the department, in both plant and animal systems. The new Chair will be expected to define and participate in expansion of this faculty over the next several years, coordinating with existing strengths in the Molecular Biology Institute, the Energy Department's Laboratory of Structural Biology and Molecular Medicine, and the basic sciences departments of the School of Medicine. The Division already has in place a strong administrative structure to assist the Chair in day-to-day operation of the new department, freeing him or her to maintain a strong research program and attend to academic matters. Individuals interested in this position should send their curriculum vita and the names of three potential references to: Chair, MCDB Search Committee, 2203 Life Sciences Building, University of California, Los Angeles, CA 90095-1606.

The University of California, Los Angeles, is an Affirmative Action/Equal Opportunity Employer. Women, minorities, and persons with disabilities are encouraged to apply.

VASCULAR PLANT SYSTEMATIST

The Department of Biology at the University of Northern Iowa invites applications for a tenure-track assistant professor position effective January 1996. The individual will teach vascular plant systematics and other courses, which may include introductory biology. Additional responsibilities include maintaining the Grant Herbarium (ISTC; 33,000 specimens). Applicants whose research and teaching interests complement those of the existing department faculty are preferred. The department expects effectiveness in both teaching and research. The applicant's research program should invite participation by master's and undergraduate students. Ph.D. in a biological science is required. Teaching and postdoctoral research experience are desired.

Screening of applications will begin August 25 and continue until the position is filled. The department encourages applications from minority persons, women, Vietnam era veterans, and disabled persons. Please submit a curriculum vitae, transcripts, a statement of interests and goals in both teaching and research, and three letters of reference to Dr. Virginia Berg, Chair, Search Committee, Department of Biology, University of Northern Iowa, Cedar Falls, IA 50614-0421. Fax: (319) 273-7125.

THE UNIVERSITY OF NORTHERN IOWA IS AN INCLUSIVE ACADEMIC COMMUNITY, HOSPITABLE TO ALL. THE UNIVERSITY OF NORTHERN IOWA IS AN EQUAL OPPORTUNITY EDUCATOR AND EMPLOYER WITH A COMPREHENSIVE PLAN FOR AFFIRMATIVE ACTION.

POSITIONS OPEN

POSTDOCTORAL POSITIONS Medical and Molecular Genetics Indiana University School of Medicine

The Department of Medical and Molecular Genetics has immediately available positions in molecular genetics and molecular cytogenetics. Research may be combined with clinical laboratory service and other training for American Board of Medical Genetics certification in Clinical Molecular Genetics or Clinical Cytogenetics. Research opportunities include chromosome mapping with FISH, loss of heterozygosity in normal tissues and specific cancers, cancer cytogenetics, and characterization of novel phospholipases A₂ and receptors. These NIH training grant positions are available only to U.S. citizens and permanent residents. Candidates should have a Ph.D. in a related field or an M.D. Experience with molecular biology techniques is desirable. Mail (or FAX) a curriculum vitae and have three letters of recommendation sent to: **Joe Christian, M.D., Ph.D., Medical and Molecular Genetics, Indiana University School of Medicine, 975 West Walnut Street, IB 130, Indianapolis, IN 46202-5251. FAX: 317-274-2387; Email: jtschf@indycms.iupui.edu.** Indiana University is an Affirmative Action/Equal Opportunity Employer.

FUNCTIONAL MAGNETIC RESONANCE IMAGING

POSTDOCTORAL POSITION available in functional magnetic resonance imaging of the human motor system. Candidate should have Ph.D. or M.D., have a background in systems neuroscience or neurology, and have an interest in the motor system. A suitably qualified person will join an active group which has several years of experience using a high field (4 Tesla) magnetic resonance system to study the human motor function. Send curriculum vitae and a list of three individuals who can provide a reference to: **Dr. James Ashe, Department of Neurology, University of Minnesota, Box 295, 420 Delaware Street SE, Minneapolis, MN 55455. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION (visiting, one-to-three years) available immediately for an ecologist to study the fate of trace elements in constructed wetlands. Desired: experience in wetland ecology with a strong background in soil and analytical chemistry. Required: Ph.D. in ecology. Salary: \$27,000 to \$30,000 per year. Please submit a curriculum vitae and have three letters of recommendation sent to: **Dr. Norman Terry, Department of Plant Biology, 111 Koshland Hall, University of California, Berkeley, CA 94720-3102. FAX: 510-642-4995; Email: nterry@nature.berkeley.edu.** Equal Opportunity Employer.

POSTDOCTORAL POSITION—Postdoctoral position available immediately to study the regulation of DNA repair and recombination genes in response to DNA damage and during competence development in *Bacillus subtilis*. Experience in protein biochemistry and molecular biology preferred. Candidates should send curriculum vitae and three references to: **Dr. Charles M. Lovett, Department of Chemistry, Williams College, Williamstown, MA 01267. Email: clovett@williams.edu.** Williams College is an Affirmative Action/Equal Opportunity Employer.

A POSTDOCTORAL POSITION is available to study protein trafficking and membrane biogenesis in yeast. Strong background in molecular biology, genetics and cell biology is essential. Send a description of research interests, curriculum vitae and the names and telephone numbers of three references to:

Dr. Neta Dean, Department of Biochemistry and Cell Biology, State University of New York, Stony Brook, NY 11794-5215. Email: ndean@mcb.bio.sunysb.edu. The State University of New York is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available in the Section of Neurobiology at Yale Medical School to study effects of neuroleptics on cortical dopaminergic system as part of a large program project concerned with neurobiology of schizophrenia. Knowledge of molecular biology and experience with HPLC is desired. Eligibility requires U.S. citizenship or permanent residency. Please contact: **Dr. Michael S. Lidow, SHM C303 Section of Neurobiology, Yale University Medical School, 333 Cedar Street, New Haven, CT 06510. Telephone: 203-785-6281.**

POSITIONS OPEN

Two **POSTDOCTORAL POSITIONS** available. One investigator will study physiological roles of LDL receptor-related proteins. These receptors mediate endocytosis and degradation of an array of ligands involved in lipoprotein and proteinase metabolism. Emphasis will be placed on establishing roles for the receptors in processes such as vasculogenesis, regulation of fibrinolytic activity in lung, lung fibrosis, apoptosis and Alzheimer's disease. A second investigator will study the function of the extracellular matrix and blood protein fibulin. Emphasis will be placed on determining its role as a thrombogenic protein. Significant experience in cell biology, protein purification, ELISA, radioligand binding assays is preferred. Send curriculum vitae with names and telephone numbers of three references to: **Dr. W. Scott Argraves, Department of Cell Biology and Anatomy, Medical University of South Carolina, Charleston, SC 29425-1309. Equal Opportunity Employment is University policy.**

POSTDOCTORAL POSITION available in the area of human DNA replication and repair, with emphasis on mechanisms, regulation, and protein structure-function relationships. Recent Ph.D. with strong background in molecular biology and biochemistry required. Send curriculum vitae, names of three references to: **Dr. Marietta Lee, University of Miami School of Medicine, R-57, P.O. Box 016960, Miami, FL 33101. Telephone: 305-547-6338; FAX: 305-547-3955.**

PRE- AND POSTDOCTORAL TRAINING Baylor College of Medicine Houston, Texas

The Department of Molecular Physiology and Biophysics program at Baylor College of Medicine offers both **PRE-** and **POSTDOCTORAL TRAINING**, in the areas of DNA structure, ion channel and membrane transporter structure and function, intracellular signaling mechanisms, and pulmonary pharmacology to the study of problems of physiological importance. The Department utilizes a multidisciplinary approach including techniques of electrophysiology, NMR, cryoelectron microscopy, protein biochemistry, fluorescence microscopy and molecular biology. To apply for a position in this highly interactive environment please send curriculum vitae and names of three references to: **Susan L. Hamilton, Ph.D., Training Program Director, Department of Molecular Physiology and Biophysics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. FAX: 713-798-3475.**

POSTDOCTORAL FELLOWSHIPS MUCOSAL IMMUNOLOGY

Two **POSTDOCTORAL POSITIONS** beginning September 1995 for new NIH projects on mucosal B cell biology. One position concerns the newly defined role of HIV gp120 as a B cell (VH3 gene family) superantigen (*Science*, 261:1588, 1993; *Am. J. Pathol.*, 144:623, 1994; *J. AIDS*, 7:641, 1994), and the mechanism by which these antibodies confer resistance to HIV mucosal transmission and long-term survival. A second position concerns use of phage-display cloning strategies to isolate marker antibodies and candidate antigens in inflammatory bowel disease pathogenesis (*J. Clin. Invest.*, 92:1080, 1993; *J. Immunol.*, 153:3756, 1994). Successful applicants should have recently completed Ph.D. in cellular immunology, analytic biochemistry, and/or molecular biology. Send curriculum vitae, research interests, and names of three references to: **Jonathan Braun, Pathology CHS 13-186, UCLA, Los Angeles, CA 90095-1732. FAX: 310-206-5178. An Equal Opportunity Employer.**

UNIVERSITY OF PITTSBURGH Medical Oncology

POSTDOCTORAL RESEARCH FELLOWSHIP available in molecular immunological investigation of melanoma vaccine therapies. Three year duration, \$28,000 to \$30,000 per year. Ph.D., Ph.D./M.D. or M.D. with basic research experience in immunology required. Must be conversant in current techniques of T-cell *in vitro* molecular and functional analysis, and in English language. Send letter of application and references to: **John M. Kirkwood, M.D., Chief, Division of Medical Oncology, University of Pittsburgh, 200 Lothrop Street (MUH 7N), Pittsburgh, PA 15213-2582. Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION—available now to study functions of galectins and integrins in smooth and skeletal muscle development. Projects involve receptor purification, immunohistochemistry, and assays of gene expression, signaling, proliferation, differentiation and migration. Send research summary, curriculum vitae, and three reference letters to: **Douglas N. W. Cooper, Ph.D., UCSF Box 0984-F, 401 Parnassus Avenue, San Francisco, CA 94143-0984. UCSF is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE position is available for NIH-funded research for a recent Ph.D. graduate to study molecular mechanisms of drug-induced apoptosis. This will involve the tumor suppressor gene p53 and molecular events downstream of p53 including Bax/Bcl-2 family members that regulate cell death or survival responses in neoplastic cells following the initiation of a potentially toxic insult. Applicants should have a strong background in molecular and cellular biology techniques including cloning, PCR sequencing, directed mutagenesis, engineering constructs, use of viral vectors, transfection techniques, immunoprecipitations, Western, Northern and Southern blots, and should be skilled with the culture of mammalian cells. Send curriculum vitae with names of three references to: **Dr. J. Houghton, Department of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOW, Protein Crystallography. Two positions available immediately to study (1) protein inhibitors of serine proteases, and (2) structural biology and chemistry of zinc metalloenzymes relevant to the design of metal ion biosensors. Background in biochemistry and molecular biology useful for the first position, background in chemistry and biochemistry useful for the second position. Interested individuals should send curriculum vitae plus the names of three references to: **Professor David W. Christianson, Department of Chemistry, University of Pennsylvania, Philadelphia, PA 19104-6323. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIP

POSTDOCTORAL FELLOWSHIP in the Departments of Clinical Biochemistry and Surgery, The Toronto Hospital, University of Toronto. Position available as of August 1, 1995, for two years. Investigations are currently focused on neutrophil signal transduction and activation in ruptured aortic aneurysms and skeletal muscle ischemia. Applicants must demonstrate expertise in Northern and Western blotting, high pressure liquid chromatography, and gas chromatography/mass spectroscopy and have experience in cell culture. A knowledge of cellular adhesion molecule physiology and lipid biochemistry would be beneficial. Established laboratory with 15 years of continuous Medical Research Council of Canada funding. Canadian applicants will be given priority. **Dr. Thomas Lindsay, EN 9-211, 200 Elizabeth Street, Toronto, ON M5G 2C4. Telephone: 416-340-4620; FAX: 416-340-5029. The University of Toronto is an Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH FELLOW for antisense DNA therapy of B-cell lymphoma in *Eu-myc* transgenic mice. Requires Ph.D. in biological sciences, experience with B-cell immunology, hematological malignancies, tumorigenesis, antigen levels, messenger levels, replication states, differentiation states, small animal pharmacokinetics, and supervision of research biologist administering antisense DNAs in mice and assessing antitumor efficacy. Please send application and three references to: **Dr. Eric Wickstrom, Department of Pharmacology, Thomas Jefferson University, Philadelphia, PA 19107. Equal Opportunity/Affirmative Action Employer.**

GI PHYSIOLOGY

POSTDOCTORAL FELLOW—Available immediately. Studies on the neural regulation of pancreatic function in rats. Expertise in microsurgical techniques is required. Research background in GI physiology/peptide hormones and experience in quantitative analytical techniques advantageous. Send curriculum vitae and three letters of recommendation to: **K. S. Kirkwood, M.D., Department of Surgery, UCSF School of Medicine, Box 0790, San Francisco, CA 94143-0790. FAX: 415-476-8696. UCSF School of Medicine is an Equal Opportunity Employer.**



**Centre for Human Genetics
at the Cleveland Clinic Foundation
Research Institute**

A vacancy exists for a (Research Fellow/Research Associate) cytogeneticist to join a team of molecular and cellular biologists involved in the genetic analysis of human cancer. The successful candidate will be involved in the identification and characterization of structural chromosome rearrangements associated with a variety of cancer syndromes. Experience in human cytogenetics is essential and much of the work will involve fish analysis using state-of-the art CCD imaging. Please reply to John K. Cowell, Ph.D., Centre for Human Genetics, Neurosciences Department, NC-30, 9500 Euclid Avenue, Cleveland, Ohio 44195, FAX (216) 444-7927.

*The Cleveland Clinic Foundation
is an Equal Opportunity/
Affirmative Action Employer*



OREGON HEALTH SCIENCES UNIVERSITY
BIOCHEMISTRY & MOLECULAR BIOLOGY

PHYSICAL BIOCHEMISTRY

The Department of Biochemistry and Molecular Biology at OHSU, School of Medicine, is committed to a period of significant expansion during the next several years, focusing on mechanisms of biochemical processes at the molecular level. We are recruiting tenure track faculty at all levels, although our emphasis is on junior colleagues. We are interested in biochemists whose focus is in applying biophysical techniques to the analysis of protein or nucleic acid function.

We will offer attractive start-up packages, competitive salaries, and the opportunity to participate in the growth and development of a dynamic and interactive department in a highly desirable location. Faculty will be expected to establish competitive research programs and assist in graduate and medical school teaching. Applicants at the Assistant Professor level should have a Ph.D. with several years of postdoctoral experience. Applications for our first series of appointments should be received by September 30, 1995.

Interested applicants should send a copy of their curriculum vitae, a description of their research plans and interests, and the names of three references to:

Professor Jack H. Kaplan, F.R.S.
Faculty Search (PB)
Department of Biochemistry and Molecular Biology
Oregon Health Sciences University
3181 S.W. Sam Jackson Park Road, L224
Portland, OR 97201-3098

OHSU is an Affirmative Action/Equal Opportunity Employer



**Faculty Positions in
Developmental Biology/Membrane Transport**

Harvard Medical School
Molecular Medicine Unit
Beth Israel Hospital

The Molecular Medicine Unit of Beth Israel Hospital is seeking applications for the position of Assistant Professor. The successful candidate will hold the Ph.D. and/or M.D. degrees, and have completed a minimum of two years of postdoctoral training in molecular cell biology, physiology, or genetics. Applicants will be expected to establish a funded independent research program in embryonic pattern formation or in membrane transport with a focus on ion channels. Generous start-up funds and some ongoing support will be provided. The Molecular Medicine Unit faculty currently investigate inductive signaling in early development, protein translocation and targeting, signal transduction and ion homeostasis. Candidates should send CVs and names of three references to:

Robert D. Rosenberg, M.D., Ph.D.
Faculty Search Committee
Molecular Medicine Unit
Beth Israel Hospital, RW663
330 Brookline Avenue
Boston, MA 02215

*The Beth Israel Hospital is an
Equal Opportunity employer.*

DEAN

Tufts University School of Veterinary Medicine

Tufts University seeks a dynamic Dean for its School of Veterinary Medicine. Just sixteen years old, the School has already distinguished itself with innovative programs in biotechnology, wildlife medicine, equine sports medicine, international veterinary medicine, ethics and values, oncology, infectious disease, animal behavior, and medical imaging. Tufts has emerged as one of the most selective veterinary schools in the U.S., with the highest number of applicants per space for the most recent year's entering class.

The next Dean must have the D.V.M. or equivalent, an entrepreneurial bent, significant administrative experience, fundraising achievement or potential, and a broad understanding of the social setting of modern veterinary medicine. Also among his or her achievements will be knowledge of current issues in veterinary education, a distinguished record of scholarly work, and an understanding of biotechnology and the biotechnology industry.

Tufts University, established in 1852, also operates distinguished schools of medicine and dental medicine, a graduate school of nutrition, and a nutrition research center, as well as a school of law and diplomacy and the colleges of arts and sciences, in greater Boston. The veterinary school's programs are based on a 640-acre campus in a pristine New England setting in North Grafton, Massachusetts, thirty miles west of Boston, and also on the Health Sciences Campus in Boston.

An extremely attractive compensation package, and the possibility of an endowed chair, accompany this position.

Applications and nominations should be sent to:

**Provost/Senior Vice President Sol Gittleman
c/o TUSVM
200 Westboro Road
N. Grafton, MA 01536**

The position will be filled when the appropriate individual is identified.

Tufts University is an AA/EO employer. Applications from women and minority candidates are especially encouraged.

POSITIONS OPEN

RESEARCH FELLOW/ RESEARCH ASSOCIATE

Opportunity to join an established, well-funded research group studying molecular and clinical aspects of drug-induced blood dyscrasias in an independent research institute with medical college affiliation. Ph.D. degree in biology, biochemistry, microbiology, or related science and two years of postdoctoral experience is highly desirable; but will consider other candidates with outstanding qualifications. Candidates must have a basic understanding of immunology and be competent in basic molecular biologic techniques. Send résumé and other information to: **Richard H. Aster, M.D., The Blood Center of SE Wisconsin, Inc., P.O. Box 2178, Milwaukee, WI 53201-2178. Equal Opportunity Employer.**

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE positions to conduct research in the molecular biology of Marfan syndrome and related disorders. Candidates should have an excellent background in PCR, mutation detection techniques, cloning, sequencing, and linkage analysis. Positions require an M.D. or Ph.D. in microbiology, biochemistry or molecular biology. Send curriculum vitae and three reference letters to: **Maurice Godfrey, Ph.D., Munroe Center for Human Genetics, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198-5430. Affirmative Action/Equal Opportunity Employer.**

Yale University School of Medicine Molecular Cardiology laboratory invites applications for a position at the **ASSOCIATE RESEARCH SCIENTIST** (faculty track), **RESEARCH ASSOCIATE** or **POSTDOCTORAL ASSOCIATE** level. Ph.D. is required. Strong background in molecular biology/genetics essential, interest and/or experience in immunology desirable, but not required. Position involves supervising molecular biology efforts of a vascular immunobiology laboratory, including direction of students and fellows. The successful candidate will be expected to work both individually and as part of a team. Designated appointment level (and salary) will be commensurate with background and experience. Position is available June 1996 (flexible start date). Please send curriculum vitae and a list of three references to: **Dr. Jeffrey R. Bender, Boyer Center for Molecular Medicine 454, Yale University School of Medicine, 295 Congress Avenue, New Haven, CT 06536-0812. FAX: 203-737-2293; Email: jeffrey_bender@quickmail.cis.yale.edu.**

RESEARCH ASSOCIATE needed to assist in the study of candidate genes involved in human morbid obesity and non-insulin-dependent diabetes. The associate will prepare RNA from human adipose specimens, and assist in measuring mRNA and protein levels of tumor necrosis factor- α , ob, and other genes. Nutritional and hormonal regulation of these candidate genes will also be investigated in primary adipocyte cultures from morbidly obese and diabetic patients. The applicant is required to have a Ph.D. degree. Some expertise in PCR or Western blot methodologies is required, and knowledge of DNA sequencing is also desirable. Please send curriculum vitae to: **Stephen J. Usala, M.D., Ph.D., Department of Medicine, East Carolina University School of Medicine, Greenville, NC 27858. FAX: 919-816-3096.**

A **FULL-TIME POSITION** is available at the Biopolymer Molecular Core Facility at the University of Maryland at Baltimore. This facility provides DNA and peptide synthesis and automated DNA sequencing for the university and its affiliates. Responsibilities include day-to-day management of the DNA synthesis and sequencing operations and the compilation of data for large scale sequencing projects. A M.S. in molecular biology and at least one year of experience in an active laboratory setting are the minimum requirements. Preference will be given to candidates who have experience with automated DNA sequencing in a core lab setting. Applicants should send a current curriculum vitae and the names of three references to:

Biopolymer Core Facility
c/o Ms. Lori McKay
Department of Microbiology and Immunology
13-009 BRB
University of Maryland
School of Medicine
655 West Baltimore Street
Baltimore, MD 21201

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP/ ASSOCIATESHIP

CHEMISTRY OR BIOLOGY OF POLYPEPTIDE HORMONES (Two or Three Years) (Available Immediately)

Opportunities for Ph.D.'s in interdisciplinary group studying peptides and glycopeptides of pituitary or other tissues, using HPLC, gas phase microsequencing, solid-phase or recombinant peptide synthesis, carbohydrate chemistry, RIA/EIA/IRMA, bioassay, to isolate, identify, synthesize, measure and characterize the biologic function of known/unknown pituitary (or other) peptides. Stipend: \$50,000 to \$85,000 plus relocation expenses. Send curriculum vitae and three references to: **Dr. A. F. Parlow, Harbor-UCLA Medical Center, 1000 West Carson Street, Torrance, CA 90509. FAX: 310-222-3432; Email: parlow@afp76.humc.edu.**

The Department of Surgery of the University of Missouri-Kansas City offers a position as **SUPERVISOR** of the Surgical Research Laboratory. This position requires a Ph.D. degree. The work of the laboratory has emphasized the measurement of adenosine nucleotides and their metabolites during shock and tissue ischemia. Expertise in HPLC analytic techniques is essential. Interest and experience in nutrition is relevant. The position carries a faculty appointment at the appropriate level, and is supported by departmental funds. Salary range is \$35,000 to \$42,000, depending on experience. A standard fringe benefit package is included. The successful applicant will be someone who can work as a member of a combined clinical and basic science team. Please send inquiries to: **Dr. Charles Van Way, Department of Medical Education, Saint Luke's Hospital, 44th and Wornall Road, Kansas City, MO 64111.**

DEVELOPMENTAL ENDOCRINOLOGY George P. Chrousos, M.D.

The Developmental Endocrinology Branch, National Institute of Child Health and Human Development is recruiting for a clinical researcher to study endocrinology and molecular biology of disorders of growth and development to understand how alterations in hormone producing and metabolism, and mutations of biosynthetic enzymes and receptors for hormones result in potentially lethal diseases of infants and children. The applicant must have a strong background in stable isotope use and molecular diagnosis for the above disorders. Position requires Board eligibility in Pediatrics and Pediatric Endocrinology, at least four years of postdoctoral experience in the use of stable isotopes and molecular biology. U.S. citizenship or permanent residency is also required. Salary range is \$37,000 to \$39,000. Send within 30 days of the placement of this ad, curriculum vitae, bibliography, and references to: **Developmental Endocrinology Branch, NICHD, Building 10, Room 10N262, 10 Center Drive MSC 1862, Bethesda, MD 20892-1862.**

AntiCancer Inc. is seeking applications for a **SENIOR PHYSICIAN-SCIENTIST** position with at least five years of research experience in pre-clinical and clinical cancer chemotherapy including clinical trials of amino acid-depleting regimens. The applicant must have an M.D. degree with proven expertise in protein chemistry and molecular biology for the cloning and the manufacturing process of amino acid-depleting enzymes. The successful candidate will lead a team in developing anti-tumor amino acid-depleting enzymes both in the manufacturing process and in the clinic evaluation of these agents. The range of salary is \$40,000 to \$60,000 per year, depending on experience. Please send inquiries to: **Director of Human Resources, AntiCancer Inc., 7917 Ostrow Street, San Diego, CA 92111. Equal Opportunity Employer.**

The Department of Ecology and Evolutionary Biology at the University of Connecticut anticipates an opening for a plants and vertebrates **COLLECTIONS MANAGER**. Principal responsibility is herbarium collection. Salary negotiable. M.S. or Ph.D. Send letter of interest, curriculum vitae, reprints, and three recommendation letters to: **G. Anderson, EEB, University of Connecticut, Storrs, CT 06269-3043. Review begins September 15, 1995. We encourage applications from underrepresented groups, including women, minorities, and people with disabilities. Search No. 5A372.**

POSITIONS OPEN

ACQUISITIONS EDITOR Biological and Medical Sciences

International Publisher is seeking scientific **EDITORS** to develop and acquire new titles (books and journals) in the scientific, technical and medical fields at the undergraduate and advanced level. Applicants must have a Ph.D. or M.S. degree in the biological sciences. Send résumé and salary history to: **Personnel Director, World Scientific Publishing Co., Inc., 1060 Main Street, River Edge, NJ 07661.**

ANNOUNCEMENT

TROPICAL RESEARCH AWARDS

The Smithsonian Tropical Research Institute (STRI) and the Organization for Tropical Studies (OTS) announce five **RESEARCH AWARDS**. Applications are invited from established investigators in all fields of ecological and evolutionary biology to conduct comparative research between STRI and OTS field sites in Panama and Costa Rica. Awards include summer salary for up to three years and appropriate travel funds. Successful applicants are expected to apply other resources to support research. Open to all nationalities. Applications accepted until 31 December 1995. Address inquiries to: **Education Office, Smithsonian, Apdo 2072, Balboa, Ancon, Panama or Unit 0948, APO AA 34002-0948 USA. Email: stri.tivoli.dealbag@ic.si.edu.**

SYMPOSIA

FOURTH SYMPOSIUM ON BIOGEOCHEMISTRY OF WETLANDS

The Fourth Symposium on Biogeochemistry of Wetlands will be held at The Monteleone Hotel in New Orleans, Louisiana. The meeting is scheduled for Monday, March 4-6, 1996. This symposium is cosponsored by Louisiana State University, Wetland Biogeochemistry Institute and the University of Florida.

This meeting will emphasize various biogeochemical processes occurring in freshwater, estuarine and saline wetlands. Topics include: The role of wetlands in improving water quality; The role of wetlands in global climatic change; Nutrient cycling in wetland ecosystems; The use of biogeochemical processes to characterize regulatory wetlands; Plant-soil interactions in wetlands; Toxic heavy-metal chemistry in wetlands; Reactions and degradation of toxic organics in wetlands; and Modeling of wetland biogeochemical processes.

For more information please contact: **Mrs. Karen Gros; telephone: 504-388-8810; FAX: 504-388-6423; Email: cowgro@lsuvm.sncc.lsu.edu.**

SYMPOSIUM: Therapeutic Antibody Technology 95 October 30 to November 1, 1995; Cathedral Hill Hotel, San Francisco, California. Speakers: C. Barbas, G. Barsomian, C. Borrebaeck, D. Burton, P. Carter, D. Charish, K. Chester, A. Griffiths, A. Grillo-Lopez, K. Hellstrom, A. Hiatt, H. Hoogenboom, P. Hudson, A. Jakovits, K. Johnson, W. Marasco, G. Mark, J. Marks, S. Morrison, I. Pastan, A. Plückthun, L. Ostberg, J. Reno, M. Rosenberg, T. Scanlon, W. Stemmer, L. Weiner, I. Wilson. Abstracts due October 16, 1995. Organizers: J. Larrick, J. Marks. Sponsor: Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mountain View, CA 94043. Telephone: 415-694-4996; FAX: 415-694-7717; Email: PAIMM@AOL.COM.

COURSES AND TRAINING

SHORT-TERM FELLOWSHIPS Genetic Sequence Computer Analysis Training

Available at the BioMolecular Engineering Research Center at Boston University. Housing and domestic travel support provided for one to three weeks. Fellowships open to graduate students, postdoctoral fellows, and senior researchers for introductory training and/or collaborative research in genetic sequence analysis, protein structure prediction and/or molecular genetic database support. Preference given to those with a well-defined sequence analysis problem. Send curriculum vitae and description of proposed analysis problem to: **Tom Graf, BioMolecular Engineering Research Center, Boston University, 36 Cummington Street, Boston, MA 02215.**

Postdoctoral Fellowship in Signal Transduction

Postdoctoral positions are available in the Department of Signal Transduction for highly motivated and independent individuals interested in applying modern techniques in molecular and cellular biology to explore the actions of hormones and growth factors. The department consists of a metabolic, cardiovascular, neurological and proliferative disease. Research opportunities are available in the laboratories of:

Pedro Cuatrecasas: Hormone receptor interactions; molecular membrane biology

Stuart Decker: Growth factor receptor signaling

David Dudley: Peptide receptor signaling mechanisms; kinase targets

John "Wick" Johnson: Mechanism of insulin secretion

Todd Leff: Regulation of transcription by hormonal signals

Alan Saltiel: Mechanism of insulin action; protein kinases and phosphatases

Sherrie Tafuri: Transcriptional regulation in insulin signaling and adipocyte differentiation

Applicants should be recent MD or PhD graduates with a strong background in molecular and cellular biology, biochemistry, pharmacology, physiology or a related area. However, the overall ability, enthusiasm and motivation are more important than the precise nature of previous experience. Interactions with our colleagues at nearby University of Michigan and other academic institutions are encouraged. Interested scientists should send a CV and list of references to **Human Resources, Box ROG-ST, PARKE-DAVIS Pharmaceutical Research Division, 2800 Plymouth Road, Ann Arbor, MI 48105.** "Smoke-Free Work Environment"



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RESEARCH ASSOCIATE

The Upjohn Company, a recognized leader in worldwide pharmaceutical research, is seeking a Research Associate with a B.S. or M.S. in pharmacology, biochemistry or a related discipline and a minimum of two years experience.

As part of a multi-disciplinary team, you will be responsible for biochemical analysis in support of animal models of cardiovascular diseases related to ischemia/reperfusion injury and/or atherosclerosis.

Upjohn Laboratories offers a stimulating, multi-disciplinary research environment at our headquarters in Kalamazoo, Michigan, a medium-sized community located midway between Chicago and Detroit. We provide an excellent salary and benefits package. For confidential consideration please submit your resume to: **The Upjohn Company, Ad #298, 7000 Portage Road, Kalamazoo, MI 49001.**

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Director of Research

Cypros is a public, development stage company, with several pre-clinical drug discovery programs, two drugs in phase II clinical trials, and an aggressive licensing and acquisition policy. The company focuses on small molecule drugs to treat ischemia.

We seek a **Director of Research** to lead and coordinate our in-house chemistry and biology laboratories, represent the company externally in pre-clinical research matters, and help assess acquisition opportunities. Experience in cardiovascular, renal and/or neurologic fields an advantage. Must demonstrate superior scientific and management abilities; experience in commercial environments and a strong academic background required.

Candidates should submit their CV and a cover letter to: Human Resources Dept.



CYPROS
Pharmaceutical Corporation
2732 Loker Ave. West, Carlsbad, CA 92008

Please reply by August 25, 1995.

VIROLOGIST

INNOVATION SERVING
HEALTH CARE

At Baxter Healthcare Corporation, our commitment to innovation serving health care is evident. Today, this Fortune 500 Corporation has an immediate opening for a Virologist in its Corporate Research and Technical Services Group in Round Lake, Illinois.

In this position, you will provide virology expertise to support development and regulatory submissions of biomedical products. You will also design and execute studies to explore virucidal or virus removal reagents/processes and examine their mechanisms. Requirements include a Ph.D. degree in Virology or related Life Science disciplines, 2+ years of working experience in handling cell cultures and viruses (preferably including HIV), knowledge of virucidal or virus removal reagents/processes, and excellent written and oral communication skills.

Baxter Healthcare Corporation is a leader in the healthcare industry offering excellent salaries and benefits. For immediate consideration, submit resume and salary history to: **CRTS Human Resources, WG2-3S, Dept. AP95117, Baxter Technology Park, Rte. 120 & Wilson Rd., Round Lake, IL 60073.** An Equal Opportunity Employer.

Baxter



HUMAN GENE THERAPY RESEARCH INSTITUTE

AN IOWA HEALTH SYSTEM AFFILIATE

Exciting opportunities are available for a Staff Scientist, Post-Doctoral Fellows, and Research Technologists.

Dr. Charles Link - Molecular Oncology Laboratory:

Post-Doctoral Fellow: Position available immediately for a qualified molecular biologist to study gene transfer and expression. A qualified applicant will have two years of experience after receiving their doctoral degree in molecular biology or a related discipline. Prior experience in gene transfer and expression systems or homologous recombination is desirable.

Dr. Donald Moorman -Surgical Oncology:

Research Technologist: Responsible for assisting in development, experimentation and analysis of scientific methods. Conducts experiments and monitors supplies, equipment and records. Requires Bachelor's Degree in Science Related discipline. Experience with cell culture and molecular biology required.

Dr. Tatiana Seregina - Clinical Laboratory:

Research Technologist: Individual will be responsible for testing recombinant gene therapy vectors. Requires five years of research technologist experience in industry or academia, two or more years of experience in tissue culture/virus production under GMP conditions. Experience in vaccine production and testing, immunochemistry, and basic molecular biological methods is desirable.

Dr. Thomas Horiagon - Molecular Vaccine Laboratory:

Staff Scientist: Position available immediately for a qualified molecular virologist to work on the design and application of recombinant adenovirus gene delivery systems. A qualified applicant will have an earned doctorate in biology or a related discipline and a minimum of 6 years' postdoctoral training. Prior experience in heterologous expression of viral genes, viral assembly, and/or virus-receptor interactions is desirable.

Post-Doctoral Fellow: Post-Doctoral position available immediately for a qualified molecular immunologist to work on modulation of mucosal immune responses by gene transfer. A qualified applicant will have an earned doctorate in biology or a related discipline and a minimum of 2 years' postdoctoral training. Prior experience with heterologous expression of antibody molecules and animal models of mucosal immunity is desirable.

Pre-Doctoral Fellow: This training position is available for an individual with a baccalaureate earned within the past 24 months and laboratory experience in molecular biology who is committed to pursue doctoral-level training in biology or a related discipline. A person in this position will have an immersion experience in molecular biology for 12-24 months with the intention of enriching and accelerating subsequent doctoral-level training. A degree will not be offered.

Please apply to the above positions with a curriculum vitae, names of three references, representative reprints, and a statement of research interests.

Iowa Health System offers a competitive salary, commensurate with experience, and comprehensive benefit package. Please apply to: **Iowa Health System, Human Resources, 1313 High Street, Suite 111, Des Moines, Iowa 50309, 1-800-843-4522 or 515-241-8114. EOE/AA/M/F/D/V**

The National Biological Service and the National Research Council announce the availability of Postdoctoral Research opportunities at the Conte Anadromous Fish Research Center, Turners Falls, MA. USA. Areas for research related to the physiology of anadromous fish include osmoregulation, growth, energetics, endocrinology, neuroendocrinology, photoperiodism, olfaction and reproduction. Applicants should have a doctoral degree in the life or biomedical sciences and experience in one or more of these areas. Annual stipends for recent graduates is \$33,000, and is appropriately higher for those with more than 5 years of experience. Support for relocation and funds for professional travel are available, and a health insurance program is offered. Awards are for 1 year with possible renewals for a total of 3 years. U.S. citizenship is required.

The Conte Anadromous Fish Research Center is located in Western Massachusetts on the Connecticut River, the largest river in New England. Research is conducted on all aspects of anadromous fish biology and ecology, especially problems related to population enhancement, restoration and fish passage. The Center has excellent facilities for fish culture, immunoassays, ion regulation, electrophysiology, respirometry and other areas of physiological and biochemical research. The Center is located only 20 miles from the campus of the University of Massachusetts at Amherst and the 5-college campuses.

For further information on research opportunities, please write:

Dr. Stephen D. McCormick
Conte Anadromous Fish Research Center
National Biological Service
P.O. Box 796
Turners Falls, MA 01376

For application materials, please contact:

National Research Council
Associateships Program [TJ 2114/F]
2101 Constitution Avenue
Washington, D.C. 20418
FAX: (202) 334-2759

Research Associateship awards are offered on a competitive bases. Applications, submitted directly to the NRC, should be **postmarked by January 15, 1996.**

42nd Rachford Lectures
September 18 and 19, 1995

Transcriptional Control of Embryogenesis

An International Symposium
Children's Hospital Medical Center
Cincinnati, Ohio

Sponsored by

Perinatal Research Institute and Program of Excellence in Molecular Biology of the Heart and Lung, Children's Hospital Medical Center, Cincinnati, Ohio, and University of Cincinnati College of Medicine

Faculty:

Eddy DeRobertis, M.D., Ph.D.
University of California, Los Angeles
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Université De Geneve
Brigid Hogan, Ph.D.
Vanderbilt University Medical School
Thomas Jessel, Ph.D.
Columbia University College of Physicians and Surgeons
Joan Massagué, Ph.D.
Memorial Sloan-Kettering Cancer Center
Michael Rosenfeld
University of California, San Diego
Arthur Weiss, M.D., Ph.D.
University of California, San Francisco
Lewis Williams, M.D., Ph.D.
University of California, San Francisco
Kenneth Zaret, Ph.D.
Brown University School of Medicine

Abstracts (5 1/4" W X 6 3/4" H) for poster presentation may be submitted by registered participants. Details will be included with registration materials. Please submit abstracts before August 1.

For hotel information or to register, contact: Shirley Courtney
Division of Endocrinology
Children's Hospital Medical Center
3333 Burnet Ave.
Cincinnati, OH 45229-3039
Phone: 513-559-4209
Fax: 513-559-7486

Registration deadline: August 15
Registration fee:
Students and trainees \$50;
Faculty \$75

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LIMS SPECIALIST

Boulder, CO

This individual will lead the implementation and support of a Laboratory Information Management System (LIMS) for the Quality Assurance Department in our Boulder facility. Responsibilities also include writing SOPs and other documentation as well as training and supporting users.

The qualified candidate will have at least 2 years' experience in an Analytical Lab or a LIMS environment and 2 years' experience with relational databases, including at least 1 year using Oracle. Requirements also include a background in project management, knowledge of SQL, and a BS (or equivalent) in Computer or Life Sciences. The preferred candidate will be familiar with Macintosh and OpenVMS operating systems and regulatory requirements pertaining to software validation and FDA GMP.

To apply for the LIMS SPECIALIST position, please mail your resume to: Amgen Boulder, Human Resources Dept., Job Code: OXP-SC-0476, 3200 Walnut Avenue, Boulder, CO 80301. Principals only, please.

RESEARCH ASSOCIATE *Thousand Oaks, CA*

Working at our Southern California headquarters, this individual will assist in developing a gene delivery and therapeutic system. The qualified candidate will have a BS with 5 years' laboratory experience or an MS with 2 years' laboratory experience, including tissue culture as well as protein gel and western blot analysis. Background must also include a demonstrated knowledge of molecular biology techniques, including DNA cloning; gene expression in mammalian cells; PCR; site-directed mutagenesis; RNA and DNA isolation; and Northern and Southern blots. Excellent organization and communication skills are essential. Experience with adenovirus mediated gene transfer is preferred.

To apply for the RESEARCH ASSOCIATE position, please mail or fax your resume/c.v. to: Amgen, Staffing, Job Code: OXP-SC-2757, Amgen Center, Thousand Oaks, CA 91320-1789. Fax: (805) 499-9981. Principals only, please.

Please consult our on-line Job Bulletin Board at <http://www.bio.com> for information on other career opportunities available at Amgen.

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EEO/AA Employer M/F/D/V



NATIONAL INSTITUTES OF HEALTH PUBLIC HEALTH SERVICE DEPARTMENT OF HEALTH AND HUMAN SERVICES

The National Institutes of Health (NIH) invites applications for the position of Associate Director for Communications, Office of Communications, Office of the Director. This is a Civil Service position in the Senior Executive Service (SES), with a salary ranging from the ES-1 to ES-6 pay level per annum (currently \$97,991 to \$122,040, including locality pay). A one-year probationary period must be served by the individual selected if not currently in the career Senior Executive Service.

The Associate Director for Communications is the principal official responsible for the public affairs program in the NIH. This includes developing and disseminating science-based health information to the general public or specialized target groups within a domestic or foreign setting; providing information of particular value and interest to agency employees; establishing and maintaining effective working relationships with all media, both foreign and domestic, and developing and disseminating informational materials through the media; advising the Director, NIH, on policy formulation and the potential public reaction to proposed policy; identifying and conducting the public communication requirements inherent in disseminating policy decisions; and evaluating the effectiveness of communication programs in furthering the goals of the NIH.

Applicants must possess experience acquired in a position of leadership in a research organization with a scientific, health or biomedical focus. This experience must reflect an ability to transform complex research in the biomedical and behavioral sciences into clear and cogent communications directed toward researchers, health care providers, and targeted segments of the public.

Applicants should submit either a curriculum vitae, an Optional Application for Federal Employment (OF-612), or any other written format (including an SF-171 or resume); a bibliography; and a written statement addressing the mandatory and desirable qualification factors for this position. A complete application package can be obtained by calling (301) 402-4111 (vacancy announcement number OD-95-1066). The TDD number is (301) 402-1970. Application materials must be sent to the following address:

NATIONAL INSTITUTES OF HEALTH
OFFICE OF THE DIRECTOR PERSONNEL OFFICE
ATTN: MR. DAVID CONBOY
BUILDING 31, ROOM 1C27
31 CENTER DR MSC 2264
BETHESDA, MARYLAND 20892-2264

Public Health Service Commissioned Officers wishing to enter the SES must follow the above procedures. Officers interested in performing the duties of the position within the PHS Commissioned Corps may submit a resume to the above address.

APPLICATIONS MUST BE POSTMARKED NO LATER THAN SEPTEMBER 26, 1995.

SELECTION FOR THIS POSITION WILL BE BASED SOLELY ON MERIT, WITH NO DISCRIMINATION FOR NONMERIT REASONS SUCH AS RACE, COLOR, RELIGION, GENDER, SEXUAL ORIENTATION, NATIONAL ORIGIN, POLITICAL AFFILIATION, MARITAL STATUS, DISABILITY, AGE, OR MEMBERSHIP OR NONMEMBERSHIP IN AN EMPLOYEE ORGANIZATION.

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Two New Lectureships

Lectureship in Pollution Biology Ref: 205/95

Applications are invited from individuals with an interest in the biological impact of pollution on animals, ranging from theoretical/modelling-based approaches through to studies of the biological action of pollutants on single species or communities. All areas will be given full consideration but we would especially welcome applications from those with expertise in terrestrial pollution. The successful candidate will be expected to make a significant contribution to our highly successful Masters course in Pollution and Environmental Control and undergraduate courses in environmental biology, and to establish a vigorous and interactive research programme. This post is for a period of five years with the possibility of renewal.

Contact: Professor Mike Emes, tel: 0161 275 3899, fax: 0161 275 3954, e-mail: MEmes@fs2.scg.man.ac.uk
Closing date: July 31st, 1995.

Temporary Lectureship in Microbiology Ref: 206/95

Applications are invited for a temporary lectureship in microbiology within the School of Biological Sciences. The lectureship is for a period of 3 1/2 years from 1 October 1995 and follows the appointment of Professor I.S. Roberts to the Lister Chair of Microbiology. Applications from any area of Microbiology are welcome.

Informal enquiries may be addressed to: Professor A.P.J. Trinci, tel: 0161 275 3893, fax: 0161 275 5656, email: Tony.Trinci@man.ac.uk
Closing date: August 11th, 1995.

Salary in the range £15,154 to £26,430 p.a. Application forms and further information are available from the Director of Personnel (Academic Staffing), The University of Manchester, Oxford Road, Manchester M13 9PL (tel: 0161 275 2028, fax: 0161 273 5306). Please quote the appropriate reference number.

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

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As Director you will provide inspiration, leadership and scientific direction to the Laboratory. You will also play a leading role in developing the Laboratory's national and international business interests and promote its international reputation.

You will be a graduate scientist, preferably qualified to PhD level. An additional business qualification would be advantageous. You will have at least 10 years proven managerial experience, preferably of a commercial scientific facility, at a senior level, and preferably in an international role. Clear thinking, energy, and commitment are all key to this role, as are excellent presentation and communication skills.

The position will be located in their new purpose built laboratories due for completion during 1996. A generous remuneration and relocation package reflects the significance of this appointment.

If you are ready to take up this dynamic and challenging assignment, then send or fax your CV, quoting Ref.SC/1071/JVM to Jayne V. McLaughlin, Senior Consultant, *Executive & Scientific Appointments Ltd.*, Salisbury House, 15-17 The Broadway, Old Hatfield, Hertfordshire AL9 5HZ. Tel: 01707 264311 or Fax: 01707 275402.

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Massey University is an innovative academic institution with a history of growth since its foundation in 1927. Today, through its nine faculties and three schools it teaches over 11,000 fulltime equivalent students in New Zealand and throughout the Pacific Basin. The main campus is situated in beautifully landscaped grounds in a parklike setting surrounded by University farmland. The City of Palmerston North (population 72,300) is centrally located in the southern half of the North Island, and hosts four tertiary education institutions and several major government and private research institutions. The lifestyle is cosmopolitan but relaxed and friendly. A second campus of Massey University was opened at Albany, on the North Shore of Auckland, in 1993.

POSTDOCTORAL RESEARCH FELLOWSHIP

"The Synthesis of Porphyrin Arrays for Artificial Photosynthesis"

A position is available in the Department of Chemistry and Biochemistry, to work with Dr A Burrell and Dr D Officer.

In order to make materials that mimic chlorophyll in harvesting light, we have developed routes to porphyrin building blocks for the construction of oligomeric and polymeric arrays. In addition, we have made porphyrin-derived ligands for organometallic arrays. In this project, porphyrin array construction and evaluation will be undertaken.

The annual emolument payable for the Postdoctoral Research Fellowship is currently NZ\$39,500 and the Fellowship is tenable for a maximum period of two years.

Academic enquiries may be directed to Dr A Burrell (email A.K.Burrell@massey.ac.nz, facsimile 64-6-350 5682, telephone 64-6-350 4358) or Dr D Officer (email D.Officer@massey.ac.nz, facsimile 64-6-350 5682, telephone 64-6-350 4796).

Reference number Sci 51/95 must be quoted.
Closing date: 31 August 1995.

As a condition of application the University reserves the right to make enquiries of any person regarding any candidate's suitability for appointment. It also reserves the right not to make an appointment or to appoint by invitation.

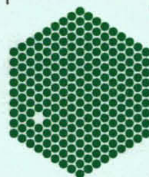
An information package including Conditions of Appointment is obtainable by telephoning 64-6-350 5984.

Applications, including a full curriculum vitae and the names, addresses and fax numbers of three referees must be sent to 'Academic Vacancies', Human Resources Section before the closing date specified.

Equality of opportunity is University policy.

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EMBL

The European Molecular Biology Laboratory, an international research organization consisting of three outstations and a headquarters laboratory situated in Heidelberg, Germany, has the following vacancies in **Hinxton, near Cambridge, UK**.

GROUP LEADERS IN BIOINFORMATICS

The European Bioinformatics institute is an Outstation of The European Molecular Biology Laboratory. The EBI is located in Hinxton, Cambridge, UK, where it shares the site with the Sanger Centre (Wellcome Trust/MRC) and the Human Genome Resource Centre (MRC). The EBI (which includes the EMBL Data Library) offers a stimulating international environment for research in the area of bioinformatics as related to genome research and structural biology.

As Group Leaders, the EBI is now seeking two scientists in the field of bioinformatics. The successful candidates will establish small independent research groups preferably in a field that is complementary to the existing research activities of the EBI, already strong in the area of structural biology. Applicants in the following fields are particularly encouraged:

- Genome analysis
- Mapping and linkage analysis
- Molecular evolution

Applicants are expected to have a Ph.D (or equivalent degree) and at least five years research experience and a publication record in bioinformatics. They will be expected to conduct independent research of a high standard.

Commencing Date: 1 January 1996 or as soon as possible thereafter.

Closing date for applications: 15 October 1995

Further information may be obtained from Professor Michael Ashburner, the chair of the search committee, at EMBL-EBI, Hinxton, near Cambridge, CB10 1RQ, United Kingdom (email ashburner@ebi.ac.uk).

As an inclusive international organization, EMBL particularly encourages applications from women. The Laboratory provides financial help in relocating families.

Please write, quoting reference number 95/26(S), enclosing a CV and description of research experience and interests, and arrange for 3 letters of recommendation to:

The Head of Personnel, EMBL, Postfach 10.2209,
D-69012 Heidelberg, Germany. (Fax: +49 6221 387555).

中央研究所 化学部門 研究員募集

ドイツ・バイエル社は海外の研究拠点として、アメリカに次いで今春日本に中央研究所を設立しました。この研究所では、アレルギー及び自己免疫疾患分野を担当。ドイツ・アメリカ等との学術交流が頻繁なため、国際感覚豊かでリーダーシップのとれる優秀な研究者を募集します。

職務内容 1. コンピュータによる薬物デザイン (Molecular Modeling) の研究

2. 医薬品探索のための有機合成化学分野の研究 (プロジェクトリーダー)

応募資格 上記関連分野の研究者で Ph.D 又は同等の知識・経験のある方。

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日本語・英語必須。30〜35才位迄。

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The conference is supported by a grant from the DeWitt Wallace-Reader's Digest Fund.



AQUATIC ECOLOGY POSITIONS IN SWITZERLAND

The Swiss Federal Institute for Environmental Science and Technology (EAWAG) is a research institute specializing in basic and applied research, with water as the central focus. The EAWAG is part of the federal university [Swiss Federal Institute of Technology (ETH-Zürich)].

The Limnology/Hydrobiology Department, one of eleven departments of the EAWAG, currently consists of the professor and twelve staff scientists, plus their Ph.D. students and technicians. The following new positions are part of an expansion that involves strengthening stream/river ecology, adding a littoral zone perspective to lake research, and adding groundwater ecology as a subdiscipline of the department.

1. STREAM/RIVER ECOLOGIST (research and teaching) - emphasis on invertebrates at population, community, ecosystem level(s).

2. ECOLOGICAL GENETICIST-AQUATIC BIOTA (research and teaching) - to investigate ecological/zoogeographic/evolutionary questions in fresh water systems using molecular techniques.

3. RIPARIAN/WETLAND ECOLOGIST (research and teaching) - to investigate plant communities associated with lotic ecosystems. Interest in restoration ecology desirable.

4. LITTORAL ZONE ECOLOGIST (research) - to investigate littoral zone processes and littoral-pelagic coupling; macrophytes and/or Aufwuchs.

5. POSTDOCTORAL ASSOCIATE: STREAM/GROUNDWATER ECOLOGY - a 2-or 3-year position with the professor.

6. PH.D. STUDENT POSITION: STREAM/GROUNDWATER ECOLOGY - highly motivated student to conduct research leading to the Ph.D. degree under the professor's supervision. Base salary with possibility of teaching supplement.

REQUIREMENTS - Ph.D. degree in appropriate field (except position 6), postdoctoral experience preferred (positions 1-4). Peer-reviewed publications are considered the strongest evidence of active research contribution to the discipline. Only those fully committed to productive scholarship should apply.

SALARIES - highly competitive, the amount dependent upon qualifications and experience.

FACILITIES - Most members of the department are housed in the main EAWAG facility at Dübendorf, a few minutes from Zürich. The littoral zone ecologist will be located at the Limnological Research Center at Kastanienbaum, on the shore of Lake Lucerne. Excellent resources are available for research and teaching. A state-of-the-art Analytical Chemistry Laboratory is a valued component of the department. Possibilities for interdisciplinary research are outstanding.

TIME FRAME - positions are available from 1 October 1995. Applications are due by 15 September 1995, although the search may be extended if suitable candidates are not found.

APPLICATION - send a letter of application, a curriculum vitae, transcripts, and the names (address/phone/FAX) of four references to: Prof. J.V. Ward, Dept. of Limnology, EAWAG/ETH, Überlandstrasse 133, CH-8600, Dübendorf, Switzerland.

ADDITIONAL INFORMATION - direct to Dr. Peter Bossard, Limnological Research Center, CH-6047 Kastanienbaum, Switzerland. Phone +41-41-482-120; FAX +41-41-482-168; E-mail bossard@eawag.ch

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Informal enquiries may be directed to Dr. N. Gow on (01224) 273179 or Dr. A. Brown on (01224) 273183.

Application forms and further particulars are available from Personnel Services, University of Aberdeen, Regent Walk, Aberdeen AB9 1FX, telephone (01224) 272727 quoting the appropriate reference number. A 24-hour answering service is in operation.

Closing Date: 11th August 1995

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THE NATIONAL RESEARCH COUNCIL announces opportunities for **Postdoctoral & Senior Research Associateship Awards** available at the **U.S. ARMY MEDICAL RESEARCH INSTITUTE OF INFECTIOUS DISEASES**

Awards sponsored by the National Research Council are available for research to be conducted at the U.S. Army Medical Research Institute of Infectious Diseases, Ft. Detrick, Frederick, MD. Applications are invited from individuals interested in pursuing research on the mechanisms of microbial pathogenesis and host resistance to infection with *Yersinia pestis*, with use of molecular approaches (1) to study the role of plasmid- and chromosomally encoded virulence factors in the virulence of, and immunity to, *Y. pestis*; or (2) to identify mechanisms of innate and acquired resistance to *Y. pestis*, and (3) to develop improved vaccines against plague.

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FOR FURTHER INFORMATION CONTACT:

Arthur M. Friedlander M.D., Bacteriology Division, USAMRIID Bldg. 1425
Ft. Detrick, Frederick MD 21702-5011

Phone: 301-619-7341 Fax: 301-619-2152

Applications, submitted directly to the NRC, are accepted on a continuous basis throughout the year. Those postmarked by August 15 will be reviewed in October, by January 15, 1996 in February, and by April 15 in June.



FOR APPLICATION MATERIALS CONTACT:
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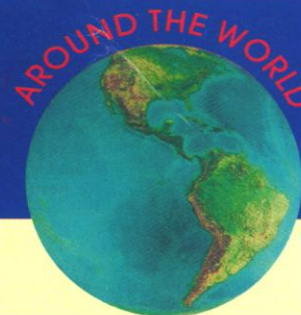
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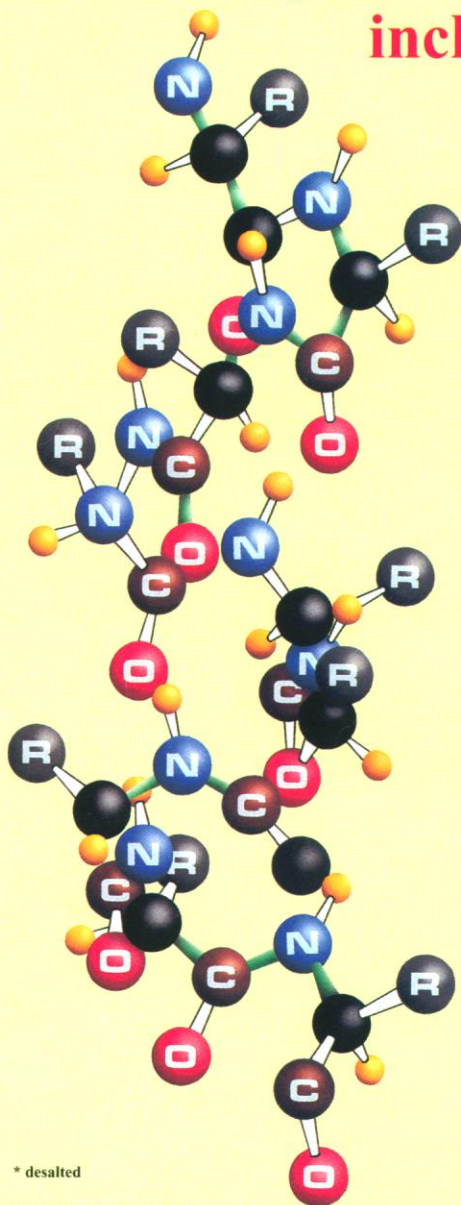
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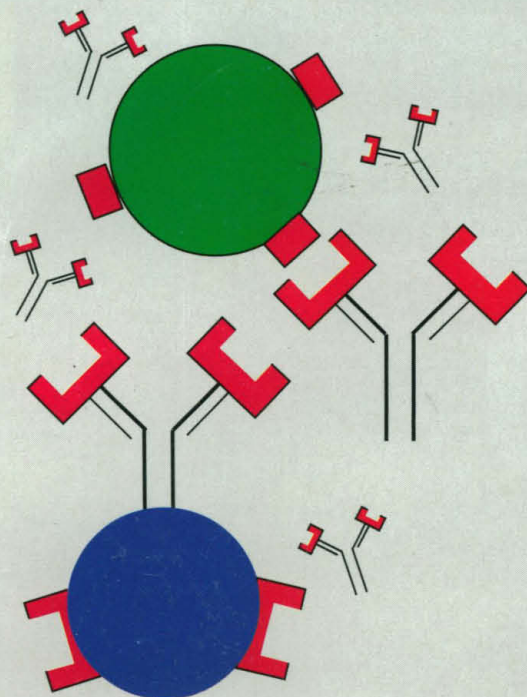
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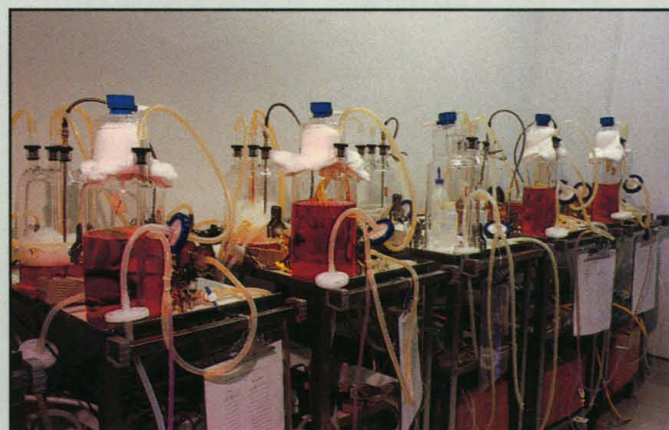


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