range from psychology, zoology, and pharmacology to ergonomics, usability testing, and human factors. The new release complements a package for DOS computers. Noldus Information Technology. Circle 143.

Cell Proliferation Kit
The Cell Proliferation ELISA BrdU Kit is a colorimetric enzyme-linked immunosorbent assay that is claimed to be as sensitive as traditional tritiated thymidine methods without the problems of radioactivity. All steps are performed at room temperature, with fewer washing steps than a previous kit by the same manufacturer. Total assay time is reduced from 6 to 1.5 hours. Boehringer Mannheim. Circle 144.

Mutation Detection
The D Gene system can detect any type of mutation and produces highly reproducible results. The system is based on denaturing gradient gel electrophoresis, an innovative and sensitive method that can provide up to 99% efficiency. The heart of the system is a vertical electrophoresis cell that separates wild-type and mutant fragments. The process makes use of a polyacrylamide gel with a denaturing gradient perpendicular to the electric field at a controlled temperature. The system is available in two gel sizes. Bio-Rad Laboratories. Circle 145.

Thermostable DNA Polymerase
Thermus Thermophilus has both DNA- and RNA-dependent DNA polymerase activities. Isolated from the thermophilic bacterium Thermus thermophilus, it has a half life of more than 1 hour at 95°C and optimal activity at temperatures greater than 65°C. These properties allow for DNA synthesis from RNA or DNA templates that resist DNA synthesis reactions at lower temperatures due to the formation of template secondary structures. Epicentre Technologies. Circle 146.

Stop contamination with this PCR® workstation.

The Template-Tamer™ eliminates contaminating DNA with ultraviolet light.

Before you add the template and polymerase, just place buffers, pipettes, pipette tips and other plasticware in the unit for 30 minutes. Then use the Template-Tamer™ as a contamination-free, closed environment.

Keep your PCR experiments pure.
Call 1-800-77-ONCOR.

For research use only Not for use in diagnostic procedures
* The Polymerase Chain Reaction (PCR) process is covered by U.S. patents owned by Hoffman-La Roche. Use of the PCR process requires a license.
Template Tamer™ is a trademark of Oncor, Inc.

Sutter micropipette pullers are the finest available.
Built-in versatility and repeatability are based on 20 years of continuous research and development.
Call or write for a free catalog.

Sutter Instrument Company
40 Leveroni Court
Novato CA 94949

Circle No. 10 on Readers' Service Card

Circle No. 40 on Readers' Service Card

Literature
1995 Catalog from Invitrogen contains information on more than 200 products for gene expression and analysis, including a complete line of cloning and expression vectors, nucleic acid purification kits, gene transfer products, expression systems, polymerase chain reaction products, and custom services. Invitrogen. Circle 147.

Laboratory Dialog is a free, semiannual newsletter that includes short articles on technical processes and procedures, applications for a variety of laboratory apparatus, and case studies from users of Labconco products. Each eight-page issue also contains a literature review detailing free brochures and catalogs. Labconco. Circle 148.


CD Reference Chart is a wall chart containing information on all known cell surface antigens, including antigen cluster, antigen name, predominant distribution, molecular weight, and chain composition. Becton Dickinson Immunocytometry Systems. Circle 150.
POSITIONS OPEN

ASSISTANT, ASSOCIATE OR FULL PROFESSOR
University of Southern California

Applications are invited for a junior or senior TENURE-TRACK FACULTY position in the Division of Neurogenetics at the Andrus Gerontology Center. Applications should be submitted by May 15, 2014. Send applications with curriculum vitae and three letters of recommendation to Dr. Peter Piatigorsky. University of Southern California, Department of Neurology, Los Angeles, CA 90089-0191.

POSITIONS OPEN

MOLECULAR IMMUNOLOGIST
University of California, San Francisco (UCSF)

The Department of Obstetrics, Gynecology and Reproductive Sciences is seeking a full-time Molecular Biologist/Immunologist (Ph.D. or M.D.) at the ASSISTANT PROFESSOR level to join the reproductive immunology faculty at UCSF. Applicants must have a Ph.D. or M.D. with postdoctoral training in neurobiology, molecular biology, immunology, genetics or physiology. Applicants will be expected to participate in an extramural research program with extramural research support to study the cell biology of aging, reactive synaptogenesis and neurodegenerative diseases of the CNS. Teaching responsibilities will be at the undergraduate, graduate and postgraduate levels. Send curriculum vitae, statement of research interests, reprints of two relevant publications and the names and addresses of three references to: Dr. Caleb Finch, Andrus Gerontology Center, University of Southern California, Los Angeles, CA 90089-0191. US is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

REPRODUCTIVE BIOLOGIST

Biological Sciences: Reproductive Biologist. The Reproductive Physiology and Endocrinology Group is seeking applications for a tenure-track position at the ASISTANT PROFESSOR level to start August 1995. Research in the group focuses on the regulation of reproductive function at the cellular and molecular levels. The appointee will be expected to develop a strong research program complementary to ongoing research at the Institute and to seek extramural funding. The position is expected to be open by the fall of 1995. Send curriculum vitae, statement of research interests, and names of three references to: Dr. Janis Glass, Chair, Search Committee, Department of Biological Sciences, Kent State University, Box 1001, Kent, OH 44242.

DNA BIOLOGIST

The Molecular Biology Department in the Research Institute of The Cleveland Clinic Foundation has a position available, at the ASSISTANT or ASSOCIATE level, in the area of RNA biology with an emphasis on post-transcriptional events. The new member will interact with existing programs in RNA synthesis and processing at the institute and with a large community of RNA researchers in the Cleveland area. The Research Institute is a rapidly growing, well-equipped, basic research organization with laboratories studying many aspects of molecular and cellular biology. The successful candidate will develop a research program focused on RNA biology, including transcription, post-transcriptional modification, RNA recognition and transport, RNA modification, RNA catabolism and RNA replication. The successful candidate will develop his/her own research program and is encouraged to apply. Postdoctoral applications are encouraged. Send curriculum vitae, a statement of research plans and three letters of recommendation by June 15, 1995. Applications should be sent to: Dr. Donald Schlenstedt, Chair, RNA Biology, The Cleveland Clinic Foundation, 9500 Euclid Avenue, NC20, Cleveland, OH 44195. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR
Institute of Toxicology
Chung Shan Medical & Dental College
Taiwan, R.O.C.

Candidates who have research that complements interdepartmental efforts bridging the area of lung carcinogenesis in Taiwan, experimental aspects of lung toxicology, lung immunology, pulmonary pathology, and clinical toxicokinetics are encouraged to apply. Successful individuals must hold a Ph.D. with postdoctoral experience. Application, including curriculum vitae and copies of reprints or publications, should be sent to: Dr. Sue Lee, Biochemistry Department, Chung Shan Medical & Dental College, Taichung, Taiwan. FAX: 886-4-3890400.

MOLECULAR BIOLOGIST

RESEARCH ASSISTANT PROFESSOR to study transcription factors in hormone-dependent carcinogenesis. The University of Texas Health Science Center at San Antonio, 7705 Floyd Curl Drive, San Antonio, TX 78284-7762. The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.
ASSOCIATE DEAN FOR GRADUATE STUDIES
Oregon Health Sciences University
The School of Medicine of the Oregon Health Sciences University (OHSU), Portland, Oregon, invites applications from candidates for the position of ASSOCIATE DEAN. The successful candidate will have a distinguished record of scientific achievement as well as proven leadership and administrative skills. Applicants should send curriculum vitae and names, addresses and telephone numbers of three references to: Ms. Margie Sasser Oregon Health Sciences University, 1122 31st Ave SW, Suite 200, Park Road Portland, OR 97201-3098. Deadline: June 15, 1995. OHSU is an Affirmative Action/Equal Opportunity Employer.

HEAD DEPARTMENT OF BIOLOGY
Memorial University of Newfoundland
Memorial University of Newfoundland invites applications for the position of HEAD, Department of Biology. The appointment, to be effective 1 September 1995 or as soon thereafter as is mutually agreeable, is initially for a term of three years and is renewable. Applicants should have demonstrated excellence in research and teaching in Biology, and be able to show leadership and administrative ability appropriate to the post. Applications and nominations will be treated in confidence. An application, including a résumé, and the names of three referees, or a nomination, should be submitted by August 15, 1995, to: Dr. Gerard Martin, Department of Biology, Memorial University of Newfoundland, St. John’s, NF A1B 3X9. Telephone: 709-737-8495; FAX: 709-737-2430; Email: gmartin@play.pscu.mun.ca.

ASSISTANT CHAIRPERSON: The Department of Biochemistry, Molecular Biology and Cell Biology, Northwestern University, Evanston, invites applications for the position of assistant chairperson. The successful candidate for this challenging and highly visible position will serve as the central coordinating strategist for designing and implementing a diverse life sciences research funding plan, overseeing the Department’s expanding renovation and building projects, and coordinating for the minority research programs. Candidates with a Ph.D. degree in the life sciences who are interested in pursuing a career involving leadership and coordination are encouraged to apply. Northwestern University’s diverse scientific community offers a unique collegial atmosphere that is international in scope and where academic excellence is a hallmark of research search. This non-tenure-track administrative position carries with it a lecturer appointment and an excellent benefits package. Interested individuals should send a curriculum vitae and arrange for three letters of reference to be sent to: Professor Neil E. Welker, Associate Chairperson, Department of Biochemistry, Molecular Biology and Cell Biology, Northwestern University, Evanston, IL 60208-3500. Deadline: June 9, 1995. Women and members of minority groups are especially encouraged to apply. Affirmative Action/Equal Opportunity Employer.

Zoologist: The Department of Zoology at North Carolina State University seeks applicants for a 12 month, tenure-track assistant professorship with a strong commitment to teaching and the undergraduate program. Duties include undergraduate advising and development of new laboratory courses including one Vertebrate Zoology. Preference will be given to candidates with a research interest in physiological ecology. Candidates should have a Ph.D. or equivalent and a strong commitment to research as evidenced by three letters of recommendation and a curriculum vitae including two additional references should be sent to: Dr. Phil Doerr, Physiological Ecology Search, Box 7617, Department of Zoology, North Carolina State University, Raleigh, NC 27695-7617. Applications will be accepted until August 1, 1995, or until a suitable candidate is selected. Women, members of minority groups, and members of all protected classes are encouraged to apply. North Carolina State University is an Equal Opportunity/Affirmative Action Employer.

DEPARTMENT CHAIR
The School of Medicine at UC San Francisco seeks an outstanding individual to lead its Department of Obstetrics, Gynecology, and Reproductive Sciences, one of the preeminent departments in the nation. The successful candidate will have exceptional administrative and organizational skills and should be a distinguished academician. The individual chosen will have major responsibilities in medical education and in the overall direction of these major activities of the distinguished department. In addition, he or she should be committed to strengthening and expanding its clinical program in the context of health care reform. Applications must be qualified for appointment at the level of Professor of Obstetrics, Gynecology, and Reproductive Sciences. Applicants should send a curriculum vitae no later than July 1, 1995, to: Dr. Lloyd H. Smith, Jr., Dean, School of Medicine, 513 Parnassus, Room S-224, San Francisco, CA 94143-0410. University of California, San Francisco is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are particularly encouraged to apply.

MOLECULAR REPRODUCTIVE BIOLOGIST
The University of Pittsburgh School of Medicine invites applications for a TENURE-TRACK POSITION in the Department of Cell Biology and Physiology. Preference will be given to individuals with a demonstrated interest in cell biology and cell biology with research interests in the hypothalamic-pituitary-gonadal axis. The successful candidate will be expected to develop an independent research program and research collaborations with reproductive physiologists in the NIH-funded Center for the Study of Reproduction. Position, salary, laboratory space and start-up funds commensurate with level of experience.

The desired starting date is negotiable. Applications must be received by May 31, 1995. Applicants should have a Ph.D. and/or M.D. degree and postdoctoral experience. Send curriculum vitae, summary of research interests and names of three references to: Raymond A. Frierell, Ph.D., Department of Cell Biology and Physiology, University of Pittsburgh School of Medicine, E1448 Biomedical Science Tower, Pittsburgh, PA 15261. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.

NEUROBIOLOGY FACULTY POSITION
The Neurobiology Research Center at the University of Alabama at Birmingham (UAB) School of Medicine invites applications for a TENURE-TRACK or tenured faculty position. The Center is seeking an outstanding individual with a strong record of achievement using modern approaches to cellular or molecular neurobiology whose interests complement those of current members. Interests of the successful candidate should include synaptic function, synaptic transmission and plasticity, development, sensory systems, signal transduction and intracellular signaling. The Center has excellent research facilities and has recently been awarded a Specialized Center of Research and Training Grant from the NIMH to launch an NSF-funded Center for Research on Synaptic Plasticity. The successful candidate will be expected to develop an active, productive research program, and to establish collaborations with established investigators across the nation. The position is available immediately. Applicants should send a curriculum vitae, names of three references, and letters of interest to: Dr. David A. Richter, Director, Neurobiology Research Center, 1719 6th Avenue South, CIRC S16, University of Alabama at Birmingham, Birmingham, AL 35294-0021 by June 2, 1995. UAB is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION
EUKARYOTIC MOLECULAR BIOLOGY
The Department of Biochemistry, University of Rochester Medical Center is seeking applications for the position of ASSISTANT PROFESSOR. Applicants should be prepared to present evidence of achievement in biochemical and molecular genetic techniques to study cellular mechanisms and human disease. Considerable prior research experience is required. The University provides well-equipped laboratories equipped with the latest tools in clinical and basic science departments, and in the Cancer Center. Send curriculum vitae and letters of recommendation to: Dr. Raymond D. Nichols, Chair, Department of Biochemistry, University of Rochester, 601 Elmwood Avenue, Rochester, NY 14642. This is an Equal Opportunity Employer.

BIOLGY POSITION
Southwestern College in Winfield, Kansas
Southwestern College, a United Methodist institution, seeks outstanding teacher for a TENURE-TRACK POSITION in Biology. Preference will be given to those with a Ph.D. or ABP preferred, rank/salary open. Candidates will have demonstrated excellence in teaching and a broad range of courses with special interests in ecology, field biology or intercellular interactions. The position begins May 1, 1995, continuing until filled. Send curriculum vitae, three references, sample syllabus, graduate transcript, statement of teaching philosophy and evidence of teaching effectiveness to: Office of the Dean, Dean of Faculty, Southwestern College, Winfield, KS 67156.

INSTRUCTOR-level faculty position available in the Department of Psychology at the University of Maryland at Baltimore. Duties will include animal model research for human neuropsychiatric diseases. Applicants must have a Ph.D. and at least one year of postdoctoral experience in neuropsychopharmacology and neurochemistry. Please mail resumes to: Dr. Robert Schwarz, Maryland Psychiatric Research Center, P. O. Box 21247, Baltimore, MD 21228, Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH FELLOWS
HARVARD MEDICAL SCHOOL
Applications are invited for positions opening in July 1995 on projects examining the molecular biology of Alzheimer’s disease and zinc metabolism in the disorder (Siena, 265:1464, 1994). Approaches involve studies of animal, human and cellular AB metabolism and its regulation. Applicants must have a Ph.D. or equivalent and demonstrate a strong interest in the study of zinc metabolism and zinc metalloproteins. A postdoctoral position is available immediately in the laboratory of Dr. Rudolph J. Tanzi, Genetics and Aging Unit, Massachusetts General Hospital East, Building 149, 13th Street, Charlestown, MA 02129, Equal Opportunity Employer.

A POSTDOCTORAL POSITION is available immediately in Enzymology/Molecular Biology/Crystallography/Bioorganic Chemistry to study the interrelationships between protein structure and function. Mutants of allotropic enzymes involved in metabolic control will be characterized by kinetics, NMR, UV and CD spectroscopy, as well as X-ray diffraction. Applicants must have a Ph.D. degree in Enzymology, Molecular Biology, Crystallography or Bioorganic Chemistry who want to extend their experience to the other areas are particularly encouraged to apply. Send curriculum vitae, and telephone numbers of three references to: Dr. Evan R. Kantrowitz, Department of Chemistry, Boston College, Chestnut Hill, MA 02167.

A POSTDOCTORAL POSITION is immediately available to study Ca2+ and K+ channel regulation by G-proteins and cyclic nucleotides in freshly dispersed and cultured rabbit retinal whole cells using whole cell perforated patch, and single channel methods. Previous experience is desirable. Send description of interest and expected starting date to: Robert H. Cox, Ph.D., Graduate Hospital, One Graduate Plaza, Philadelphia, PA 19146. An Equal Opportunity/Affirmative Action Employer.
DEPUTY DIRECTOR
Science & Technology

Lawrence Livermore National Laboratory (LLNL) is seeking an executive to implement the Laboratory's strategic science and technology plan and ensure quality of the scientific and technical programs. The selected applicant will also assist the Director in managing a $875 million budget and staff of 8,000.

The qualified candidate must have a broad technical background related to global security, global ecology, and biosciences and a demonstrated leadership in institutional management in an R&D environment. Ph.D. in Physical Sciences or Engineering preferred.

LLNL, in Livermore, CA, offers a challenging environment and a competitive salary/benefits package. Interested candidates should submit resumes, in confidence, to: Dr. James C. Hoss, Executive Vice President, The Diverseifted Search Companies, Dept. AJSC545BT, 2005 Market Street, Philadelphia, PA 19103. FAX: (215) 566-8399. EOEA/AA M/F/DV.

University of California
Lawrence Livermore National Laboratory

INDUSTRIAL MICROBIOLOGIST

Rohm and Haas Company, a leading multinational chemical company, seeks a Ph.D. microbiologist, mycologist or microbial physiologist for new product development and applications research in Biocides. This position is at our Corporate Research Center in Spring House, PA, near Philadelphia. Typical applications of our industrial biocides include: paint, plastics, consumer products, wood, preservatives, water treatment (e.g., cooling towers, pulp & paper) and marine antifoulants.

We are looking for an inventive scientist with strong accomplishments in research and development of products for materials protection. The initial focus will be on establishing new products for the preservation of paints, plastics and marine antifoulants. Subsequent opportunities to develop other applications for biocides may be expected.

The successful candidate will have a Ph.D. degree in mycology, microbiology, microbial ecology or microbial physiology, and a working knowledge of organic chemistry. Work experience in industrial microbiology — preferably in materials protection — is essential. Besides scientific excellence, you must also possess effective oral and written communicating skills and the ability to flourish in a multifunctional team environment.

Rohm and Haas offers a highly competitive salary and benefits program, including relocation assistance. We also provide many programs for the professional growth of our scientific staff. Candidates must be legally entitled to hold regular employment in the U.S.

Please forward your resume or c.v., including three professional references, to:
Research Staffing #195, Rohm and Haas Research Laboratories B-70, 727 Norristown Road, Spring House, PA 19477-0904.

An Equal Opportunity Employer M/F/D.

CENTER FOR ENVIRONMENTAL RESEARCH AND CONSERVATION

Columbia University

An Associate Research Scientist position is available in conservation genetics. Research will focus on the population genetics and molecular systemsatics of endangered mammals. Substantial experience in molecular genetics and quantitative genetic methods is essential. Field collection experience is desirable. Salary is competitive and will be commensurate with experience. The position will begin July 1, 1995. Send curriculum vitae, statement of research experience and interests, and three letters of reference by June 1, 1995 to Dr. Don J. Melnick, Director, Center for Environmental Research and Conservation (CERC), Columbia University, 405 Low Memorial Library, New York, NY 10027.

An Equal Opportunity/Affirmative Action Employer.

BUILD ON OUR RESEARCH EXCELLENCE

RESEARCH OPPORTUNITY

A scientific position is available as Project Leader for the Data Core of the Mouse Genome Informatics Project at The Jackson Laboratory. The database contains experimentally generated genotypic data such as those from linkage crosses (haplotype data from individual typings) or from recombinant inbred strain experiments (strain distribution patterns); physical mapping data (+/- hits against YACs and PIs, PFGE data); and comparative mapping data for 40 mammalian species. Other important data types include information about molecular reagents such as characteristics of probes or clones; genetic polymorphism data for strains such as visible, biochemical, RFLP or PCR variant polymorphisms; phenotypic data such as descriptions of genes, their mutations, and the function; and descriptions of inbred strains of mice for their unique quantitative characteristics. The successful applicant will be responsible for directing this core project, including overseeing acquisition and management of data; integration of genetic, physical and phenotypic data; and developing new approaches to managing these diverse types of data. Specific responsibilities will include supervision of personnel, data quality control, developing and carrying out ideas for managing and analyzing data, writing grants and papers and other professional scientific duties.

This individual will participate with other project leaders in planning and implementing decisions related to specific projects and the program project as a whole. Applicants must hold a Ph.D. in mammalian genetics, molecular genetics, or a closely related field. Experience with mammalian genetics, gene mapping, and physical mapping is important. Ability to deal successfully with day-to-day operations constructively and enthusiastically. The position requires careful attention to data details and understanding of how data are used by the genetics community. Good communication skills are essential.

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

Qualified candidates should send resume to: The Jackson Laboratory, Attn: Hook Wheeler, Human Resources, 600 Main Street, Bar Harbor, ME 04609. Phone: 207/288-3371, fax 207/288-5079, email: hrw@jax.org

An Affirmative Action/Equal Opportunity Employer
POSTDOCTORAL POSITIONS

Basic Research Center
Samsung Biomedical Research Institute

Two POSTDOCTORAL POSITIONS are available immediately (1) to study molecular aspects of DNA metabolism (2) to develop target-specific viral vectors for the treatment of cancer. Applicants should have training in molecular biology, biochemistry, and virology. Please send curriculum vitae and names of three references, along with copies of major publications to: Jin Hue Kang, Personnel Department, Samsung Research Institute, 50 Ilwon-Dong, Kangnam-Ku, Seoul, 135-230, Korea. FAX: 82-2-3410-3608.

POSTDOCTORAL SCIENTIST needed to study serotonin receptor function and alcohol. The successful applicant will be intelligent and hardworking with experience in whole animal pharmacology, wishing to develop molecular approaches to investigate physiology and behavior. The project involves cell culture, molecular techniques to study neurotransmitter expression, and pharmacology. Begin June 1, 1995, and is funded for three years. Send curriculum vitae and names of three references to: Daniel E. Benjamin, Ph.D. and Larissa A. Benjamin, Ph.D., Rutgers Center of Alcohol Studies, P.O. Box 969, Piscataway, NJ 08855-0969. FAX: 908-445-3500. Rutgers is an Equal Employment Opportunity/Affirmative Action Employer.

SIGNAL TRANSDUCTION

POSTDOCTORAL POSITION available to study signal transduction cross-talk. Current studies focus on genetic approaches to understanding the physiological significance of the various members of receptor tyrosine kinases of adenyl cyclase. Applicants should possess a Ph.D. or M.D. with a strong background in molecular biology, genetics, or biochemistry. Submit curriculum vitae and three letters of recommendation to: Dr. Robert A. Van, Department of Pharmacology, Cornell Medical College, 1300 York Avenue, New York, NY 10021. Equal Opportunity Employer.

POSTDOCTORAL POSITION to study the winged helix transcription factors (hepatocyte nuclear factor 3 and homologs) via transgenic mouse models and determine their embryonic expression patterns and roles in cell-specific gene expression (see Dev. Biol, 166:195, 1994; Mol. Cell. Biol., 15:1364, 1995). Preference will be given to candidates who have knowledge of developmental biology and use of transgenic mouse models. Please send curriculum vitae, names and telephone numbers of three references to: Dr. Herbert Costa, University of Illinois at Chicago, College of Medicine, Department of Biochemistry (M/C 536), 1819 West Polk Street, Chicago, IL 60612-7334. FAX: 312-413-0364. University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available in summer or fall of 1995 to investigate the mechanism of protein tein folding. Mutation-induced changes in folding are studied by biophysical techniques such as stopped-flow and T-jump kinetics, scanning calorimetry, and hydro- gen-deuterium exchange (HDX). Please submit a current curriculum vitae and arrange to have three letters of recommendation forwarded to: Dr. Steve Clouse, Department of Biophysics, The University of Texas Health Science Center, San Antonio, TX 78284-7770. FAX: 210-567-6595; Email: nali@bio1.uthscsa.edu. The University of Texas Health Science Center at San Antonio is an Affirmative Action/Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available June 1995 to study gene expression by plant hormones (see Plant Physiol., 104:161-170 and 505-513, 1994). Ph.D. in molecular biology or a plant science required with strong background in plant manipulation, RNA isolation and blotting techniques; or experience with plant transformation. Send curriculum vitae and names of three references to: Dr. Steve Clouse, Department of Horticultural Science, Box 7609, North Carolina State University, Raleigh, NC 27695. FAX: 919-515-2505; Email: steve_clouse@ncsu.edu.

POSTDOCTORAL POSITIONS

UNIVERSITY OF MICHIGAN

POSTDOCTORAL/LECTURER POSITION
Cytoskeleton/Phosphorylation Function / Mechanism of Action

POSTDOCTORAL POSITION available for Ph.D. in Chemistry, Biochemistry, or related field to study biological functions, structures, and mechanistic aspects of selected enzymes. Desired: strong chemical background, research experience with publications on chemistry of membrane-bound enzymes, familiarity with analytical techniques, and ability to write a dissertation. Title of Lecturer possible for qualified candidates with previous postdoctoral experience. Send curriculum vitae, list of names, addresses, and telephone numbers to: Dr. M. J. Coon, Department of Biological Chemistry, Medical School, University of Michigan, Ann Arbor, MI 48109. FAX: 313-763-4581.

POSTDOCTORAL POSITION

WASHINGTON UNIVERSITY

A POSTDOCTORAL POSITION is available immediately to study the regulation of matrix production during development and repair. The project involves in vivo and in vitro models and will focus on cis-elements in mRNA which confer post-transcriptional control. This project is in a collaborative setting with other groups and offers a highly competitive salary. Candidates should have a Ph.D. and experience in molecular and cell biology. Send curriculum vitae and three letters of recommendation to: Dr. Michael C. Parks, Department of Medicine, Jewish Hospital, Washington University, 216 South Kingshighway, St. Louis, MO 63110.

POSTDOCTORAL POSITION

Immediate availability to study tumor suppressor gene function in a rat model of hereditary cancer. Experience in molecular biology, biochemistry, and transgenic technology. Please note curriculum vitae and names of references to: Dr. Raymond Yeung, Division of Medical Science, c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION

systems neurophysiology examining network properties of S1 cortical neurons. Multi-electrode recording technology and neuroanatomical methods are combined with cross-cortical intracortical interactions to examine interactions among thalamo-cortical neurons and antidromically identified cortical ef- ferent neurons. Experience with the above methods is desirable. Send curriculum vitae and letters of recommendation to: Dr. Harvey A. Swadlow, Department of Psychology, University of Connecticut, U-20, Storrs, CT 06219. Submit applications from unusualwomen, men and people with disabilities.

POSTDOCTORAL POSITION

available to investigate the role of cytokines and kinesin related proteins of the sensory cilium in assembly and turnover of photo- sensitive membranes. Studies will involve biochemical, molecular and structural approaches using vertebrate photoreceptors. Candidate must have demonstrated ability to work independently. Send/FAX resume and references to: Dr. Joseph C. Besharse, Department of Anatomy and Cell Biology, The University of Kansas Medical Center, Kansas City, KS 66160-7400. FAX: 913-588-2710.

POSTDOCTORAL POSITION

—Immediate opening for work on an NIH-funded study of the role of inter- leukin 6 gene expression in the pathogenesis of multiple myeloma. Experience in molecular biology and/or cellu- lar immunology is desirable but not required. Send a curriculum vitae and three letters of reference to: Dr. Diane Jelinek, Department of Immunology, Mayo Clinic, 200 First Street, SW, Rochester, MN 55905. Mayo Foundation is an Affirmative Action and Equal Employment Educator and Employer.

POSTDOCTORAL POSITION

available for a recent Ph.D. with experience in cellular immunology and molecular biology. Experience with thymocyte differentiation is required. Send curriculum vitae and names of three references to: Dr. J. C. Zúñiga-Pflucker, Department of Immunology, University of Toronto, Toronto, Ontario M5S 1A8, Canada. FAX: 416-978-1938. Equal Employment Employer.

POSTDOCTORAL POSITIONS

TERRAPIN TECHNOLOGIES, INC.

POSTDOCTORAL POSITION available immediately to study unique aromatic structure in T- cells. Terrapin is a dynamic young organization with proprietary targets in intracellular signaling and a unique drug discovery technology. The position requires Ph.D. with a background in molecular and cellular biology and experience in cells of the immune system. Qualified scientists should send a letter of application, curriculum vitae, publications, and three letters of reference to: Dr. L. Siegel, Ph.D., Vice President of Research and Development, Terrapin Technologies, Inc., 750-H Gateway Boule- vard, South San Francisco, CA 94080. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS

The Dana-Farber Cancer Institute seeks to fill POSTDOCTORAL RESEARCH POSITIONS to analyze signal transduction events leading to T-cell activation and apoptosis in murine systems. A background in analytical bio- molecular techniques is desirable. A joint appointment will be held in an appropriate department of the Harvard Medical School. Immediate openings available. Send curriculum vitae and three references to: Laboratory Director, Dana-Farber Cancer Institute 44 Binney Street, Boston, MA 02115 FAX: 617-662-4630.

POSTDOCTORAL POSITION

NIH-funded fellowship restricted to U.S. citizens or permanent resi- dents, to study the genetic basis of large cell transformation in cutaneous T-cell lymphoma. Experience in molecular biology required. Send curriculum vitae and references to: Dr. Hisham Barakat, Department of Biochemistry, East Carolina University School of Medicine, Greenville, NC 27858. An Equal Employment Opportunity/Affirmative Action Employer. Accommodates individuals with disabilities. Immunization Reform and Control Act procedures followed.

POSTDOCTORAL POSITION

Gastrointestinal Cell/Molecular Biology, Mayo Clinic. Position available starting 1995 to study control mechanisms of growth and malignant transformation in biliary epithelia. Experience in cell/molecular biologic techniques required. Applicants should have M.D./and/or Ph.D. degree and must be a U.S. citizen or permanent resident. Send curriculum vitae and letters of reference to: Dr. Nicholas F. LaRusso, Center for Basic Research in Digestive Diseases, 1701 Guggenheim, Mayo Clinic, Rochester, MN 55905. Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITIONS

are available to study the modulation of cytokine dynamics by specific effector cells during neuronal cell death, and the relationship of these processes to Alzheimer's disease. Previous re- search experience in molecular and cellular biology is pre- ferred. Please send curriculum vitae and three letters of reference to: Dr. Gail V. W. Johnson, Department of Psychiatry, 1720 7th Avenue South, University of Alabama at Birmingham-School of Medicine, Birmingham, AL 35294-0017. Only U.S. citizens or perma- nent residents please.

POSTDOCTORAL (one year renewable) available July 1, 1995, to conduct research on organic carbon and microbial dynamics in suboxic ecosystems. Ph.D. in microbiology, soils, ecology, hydrology or related field required. Send application letter, curriculum vitae, publication list and three letters of reference by June 5, 1995, to: Dr. Peter Groffman, Institute of Ecosystem Studies, Box AB, Millbrook, NY 12545-0129. Email: capp@vm.marist.edu.
HUMAN GENETICS & GENOMICS
Postdoctoral Positions

The McDermott Center for Human Growth and Development is a new research unit of The UT Southwestern Medical School at Dallas focusing on human genetics, human disease genes, cancer genetics, genomics, physical and genetic mapping of the human genome, advanced technology and computational biology. Several postdoctoral positions will become available during 1995 in the research laboratories of McDermott Center faculty members. Postdoctoral fellows will also have the opportunity of interacting with the UTSW Genome Science and Technology Center focused on genomic mapping and sequencing. The faculty members and their research interests are as follows:

- Glen A. Evans, M.D., Ph.D. - Cancer genetics, genome mapping and sequencing, biotechnology.
- Michael Lovett, Ph.D. - Genetics of craniofacial disorders and chondrodysplasias. Transcription mapping of the human genome.
- Anne Bowcock, Ph.D. - Genetic analysis of breast and ovarian cancer and psoriasis.
- Roger Schultz, Ph.D. - Chromosome instability syndromes, somatic cell genetics.
- David Burbree, Ph.D. - DNA sequencing, yeast genetics.
- Chris Davies, Ph.D. - Biocomputing, informatics, yeast genetics.

Applicants should send curriculum vitae and names of references to faculty member(s) of interest c/o Susie Hayes, Administrative Services Officer, McDermott Center for Human Growth and Development, UT Southwestern Medical Center at Dallas, 5323 Harry Hines Blvd., Dallas, Texas 75235-8591. The University of Texas is an equal opportunity employer. Women and minorities are encouraged to apply.

THE UNIVERSITY OF TEXAS
SOUTHWESTERN MEDICAL CENTER
AT DALLAS

WE'RE CHANGING MILLIONS OF LIVES.
NOW IT'S YOUR TURN.

At Lederle-Praxis Biologicals, we're pioneering the design, manufacture and marketing of vaccines so sophisticated, they're changing lives—right now.

Here, you'll help improve the quality of a lot of lives. Including your own. Our research facility, located in a suburb of Rochester, NY, is within easy reach of some of New York State's most attractive cultural, educational and recreational resources.

RESEARCH SCIENTISTS

We are seeking Ph.D.s with a minimum of 3+ years' experience in clinical laboratory immunology and assay development. You will develop clinical and pre-clinical immunoassays and bioassays in support of viral and bacterial vaccine research.

The position requires a broad background in immunology and microbiology, with a solid base in serology. Experience in assay development and validation is must. Familiarity with Good Laboratory Practices is preferred.

At Lederle-Praxis, you'll enjoy a professional atmosphere and the kind of salary and benefits package you'd expect from an industry leader. Please send your resume to: Human Resources Department, Lederle-Praxis Biologicals, 211 Bailey Rd., West Henrietta, NY 14586-9720. An Equal Opportunity Employer M/F

BIOLOGIST

The Upjohn Company is seeking a Biologist to participate in the discovery and characterization of novel anti-inflammatory agents.

Our ideal candidate will have a Bachelor’s degree in biology, biochemistry, or a closely related scientific field and demonstrated experience in in vitro cell culture, molecular, cellular, biochemical, and pharmacological techniques. Experience with in vivo models of inflammation is highly desirable. We are seeking an individual with demonstrated problem-solving skills, the ability to conduct independent research, and strong interactive and communication skills. Applicants should have no history of atopic reactivity to common allergens.

Upjohn offers a stimulating, multidisciplinary research environment at our headquarters in Kalamazoo. An excellent salary and benefits package are provided. For confidential consideration, please send your curriculum vitae and a description of research experience to: The Upjohn Company, Corporate Recruiting, Position #272, 7000 Portage Road, Kalamazoo, MI 49001. We are an equal opportunity employer with a commitment to workplace diversity.

Upjohn
POSTDOCTORAL POSITIONS IN OPHTHALMIC LASER RESEARCH

One or two POSTDOCTORAL RESEARCH positions are available at the England Eye Center, Tufts University School of Medicine, to conduct ophthalmic laser research and to develop novel techniques for optical tomography and laser surgery. Potential candidates should be Ph.D. or M.D. candidates with background in biology, medicine, photonics, good communication skills, and an ability to work closely with clinical investigators. A Ph.D. degree in biomedical engineering, or related discipline is preferred. Successful candidate will be encouraged to develop his or her own independent research program. Please send curriculum vitae and three letters of recommendation to: Dr. A. H. Glasser, England Eye Center, 750 Washington Street, Boston, MA 02111. FAX: 617-636-4215.

POSTDOCTORAL POSITION

One or two POSTDOCTORAL RESEARCH positions are available immediately to study molecular mechanisms of apoptosis. A strong background in molecular biology is desired. Please send or FAX curriculum vitae and three references to: Dr. Paul Anderson, M.D., Ph.D., Division of Tumor Immunology, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. FAX: 617-632-4569. Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available immediately to study the effect of catalase-overexpression on oxidative agents-induced cardiotoxicity in established transgenic mouse model. Experience in mouse molecular biology, immunohistochemistry, cardiovascular- and cardiopharmacology, and toxicology is preferred. Send curriculum vitae and names of three references to: Dr. Y. James Kang, Department of Pharmacology and Toxicology, University of North Dakota School of Medicine, Grand Forks, ND 58202-9037 USA. FAX: 701-777-6124. University of North Dakota is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available immediately for the study of (1) biochemical and molecular mechanisms of an R-associated factor involved in regulation of cell cycle, (2) novel serum/TPA response factors involved in regulation of jumB expression. For review see: MCB, 14:4380, 1994 and JBC, 268:14482, 1993. Experience with recombinant DNA and protein chemistry are required. Please send curriculum vitae and names of three references to: Dr. Robert Chu, University of California, Los Angeles, School of Medicine, Department of Biochemistry, 108-144 CHS, Los Angeles, CA 90095-1782. FAX: 310-206-3610. UCLA is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS

Available immediately to study molecular mechanisms of dioxin action with particular emphasis on the role of arachidonic acid metabolism in mediating dioxin-mediated signal transduction events. Applicants should have experience in one or more of the following areas: (1) eukaryotic molecular biology, gene expression, PCR, in situ hybridization; (2) lipid analysis and biochemistry; (3) signal transduction, intracellular calcium, protein kinases; (4) cell culture, immunohistochemistry. The applicant must be a U.S. citizen or permanent resident. Send a letter of application, curriculum vitae and names and addresses of three references to: Dr. Arleen Rifkind, Department of Pharmacology, Cornell University Medical College, 1300 York Avenue, New York, NY 10021.

POSTDOCTORAL POSITION

Available in the Laboratory of Immunology, National Eye Institute, National Institutes of Health, Public Health Service. The position involves a research study on one of two ongoing projects: 1) Transcriptional regulation of gamma interferon (yIFN)-response elements in transgenic mice and rats with ectopic lens-expression of yIFN; 2) Analyses of T cell receptor variable region gene usage in human and rat intra-ocular autoimmune diseases. Experience in in situ PCR, gel-shift assays, molecular cloning, protein analysis, tissue culture, and histochemistry are desirable. Applicants must be U.S. citizens or permanent residents and have less than five years of postdoctoral training. Salary will range from $25,000 to $38,000 per year, depending on background and experience. Send curriculum vitae and names of three references to: Charles E. Egwuagu, M.P.H., Ph.D., Building 10, Room 303B, National Institutes of Health, 8Revision Drive, MSC 1850, Bethesda, MD 20892-1850. NIH is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITIONS

POSTDOCTORAL POSITIONS are available immediately to study molecular mechanisms of lipoprotein assembly, and structure of protein receptors. Only recent Ph.D. or M.D. with cellular and molecular biology experience should apply. Send resume and names of references to: Dr. M. Mahmoon Hussain, Department of Chemistry, University of Pennsylvania, 2900 Queen Lane, Medical College of Philadelphia, Philadelphia, PA 19129. FAX: 215-843-6471; Email: hussain@cf.medcolpa.edu.

POSTDOCTORAL RESEARCH POSITIONS

Available in the study of molecular biology: (1) Available to study gene expression and oxidative stress. Candidates with experience in eukaryotic gene expression will be preferred. The position offers considerable independent research opportunities. Send curriculum vitae to: Dr. Sampath Parthasarathy, Department of Gynecology and Obstetrics, Emory University, P.O. Box 21266, Atlanta, GA 30322. Email: spartha@emory.edu. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL TRAINING IN CELLULAR AND INTEGRATIVE NEUROSCIENCE

The University of Maryland at Baltimore is recruiting POSTDOCTORAL FELLOWSHIP for the NIMH-sponsored interdepartmental training program. It emphasizes the central role of cell-cell communication from the molecular to the genomic level. Faculty from the Departments of Anatomy, Neurology, Pathology, Pharmacology, and Physiology are engaged in the study of cellular interactions at a variety of levels exploiting state-of-the-art techniques in electrophysiology, molecular biology, light, electron, and confocal microscopy. They examine the roles of signal molecules in activating cell-surface receptors, Ca2+~dependent signal transduction, and the biology of glia in the functional and developmental plasticity of the nervous system. For further information, please contact: Dr. Danay Weinreich, Department of Pharmacology, University of Maryland, School of Medicine, 655 West Baltimore Street, Baltimore, MD 21201. Telephone: 410-706-7803. Fax: 410-706-7804. E-mail: dweinreich@umab.um.edu. University of Maryland at Baltimore is an Affirmative Action/Equal Opportunity/ADA Employer. Minority women and minorities encouraged to apply.

POSTDOCTORAL FELLOWSHIP

Epigenetic Control of Gene Expression in Plants
Waksman Institute, Rutgers University

A POSTDOCTORAL RESEARCH POSITION is available immediately to study the genetic, molecular, and biochemical basis of how epigenetically modified during plant reproduction and development. Particular emphasis is placed on allelic variants of genomic imprinting of other genes (MGC, 246:716-722, 1995) and epimutations of regulatory genes in maize (The Plant Journal, 7:797-807, 1995). Applicants should have research experience in plant genetics and molecular biology. Send curriculum vitae and a cover letter detailing experience and have three letters of recommendation sent to: Dr. Joachim Messing, Waksman Institute, Rutgers University, P.O. Box 759, Piscataway, NJ 08855-0759. Rutgers University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS

Plant Signal Transduction
Waksman Institute, Rutgers University

A POSTDOCTORAL RESEARCH position is available immediately to study signal transduction during induction of disease resistance to viral infections of tobacco and Arabidopsis. Particular emphasis is being placed on defining components of the salicylic acid signal transduction pathway(s) in Plant Cell. 4:359, 1992; Plant J. 4:539, 1992; Proc. Natl. Acad. Sci. (PNAS), 90:9533, 1993; Science, 262:1883, 1993; PNAS, 92: May 1995. Applicants should have research experience in genetics (molecular biology or biochemistry acceptable), Send curriculum vitae and a cover letter detailing experience and have three letters of recommendation sent to: Dr. Daniel J. Haischle, Waksman Institute, P.O. Box 759, Piscataway, NJ 08855. Rutgers University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP IN CELL BIOLOGY/YAC TRANSFER TECHNOLOGY

A position for a POSTDOCTORAL FELLOW is available in a project aimed to develop transfer of yeast artificial chromosomes (YACs) as a general method for the analysis of control of gene expression during development and differentiation. As a model system, YACs containing the human β-globin locus are used. This position involves development of methods for transfer of YACs into established cell lines and analysis of the effects of mutations of YAC regulatory sequences on gene expression. Prior background in cell biology, biochemistry, or molecular biology is required. Send a statement of research interests with curriculum vitae and names of references to: Dr. Robert Niedermeier, Department of Developmental Biology, The University of Medicine and Dentistry of New Jersey, P.O. Box 22908, Newark, NJ 07101. UMDNJ-New Jersey Medical School, 655 University Avenue, Newark, NJ 07103-2798. UMDNJ-New Jersey Medical School is an equal opportunity/affirmative action employer.

POSTDOCTORAL FELLOWSHIPS AT Mayo Clinic

Seeking applicants for two year postdoctoral fellowships for qualified individuals (Ph.D. or M.D. required) pursuing careers in medical research. Individuals completing the program are eligible for certification by the American Board of Clinical Chemistry. Applications on file by October 31, 1995, will be considered for appointment beginning in July 1996. Contact: Mary F. Burritt, Ph.D., Division of Clinical Biochemistry & Immunology, Mayo Clinic, Rochester, MN 55905, for more information. Mayo Foundation is an Affirmative Action Employer and Equal Opportunity Educator and Employer.

RESEARCH ASSOCIATE

The Structural Biology NMR Facility at The University of Cincinnati, College of Medicine is seeking an NMR spectrometrist knowledgeable and experienced in the application of magnetic resonance NMR experiments to biological problems. A Ph.D. degree and experience in protein structure determination is required. Experience in computer programming or technical development is preferred. The successful candidate will be responsible for the smooth day-to-day operation of the facility, routine instrument maintenance, participation in the research activities of the facility. The individual will be responsible for two 600 MHz and one 500 MHz NMR spectrometers. Please submit resume to: Paul Rosse, Ph.D., Search Committee, University of Cincinnati, Department of Molecular Genetics, Biochemistry and Microbiology, 231 Bethesda Avenue, Cincinnati, OH 45267-0009. A Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSISTANT

The University of Virginia Department of Medicine seeks a RESEARCH ASSISTANT for the Division of Endocrinology and Metabolism. Candidates should be able to independently conduct in vivo and in vitro experiments in rat models using surgical techniques, treatment, sampling methods, and specific hormones in blood samples and mRNAs in the pituitary, prepare manuscripts and presentations to scientific meetings. Send curriculum vitae and names of three references to: Daniel J. Haischle, Ph.D., University of Virginia, Department of Medicine, 504 Medical School Building, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.
ICN Pharmaceuticals, a major international pharmaceutical and biomedical firm with one-half billion dollars in revenue has a key executive position available due to continued rapid growth and expansion. The position of Vice President Research & Development requires a seasoned scientist/physician with a strong scientific record. The successful candidate will have experience taking compounds from discovery to the clinic, and into the market. Experience taking science through the regulatory process along with knowledge of science at the chemistry, biology and cell levels is required. Additionally, this position requires an articulate scientific advocate and spokesperson with a record of attracting and developing top talent. This position is located at our world headquarters in Costa Mesa, California. We offer an outstanding compensation package including relocation assistance. ICN is an equal opportunity employer.

Please send your resume to:
ICN Pharmaceuticals, Inc.
Corporate Human Resources
3300 Hyland Avenue,
Costa Mesa, CA 92626
or Fax your resume to: 714/641-7256

---

The Dana-Farber Cancer Institute seeks to fill postdoctoral training positions in AIDS-related research. Background and/or experience in this area is preferred but not essential. Candidates must commit to a two-year training period. Training opportunities are available in the areas of immunology, retrovirology and cell biology/pharmacology with Training Faculty members listed below.

Harvey Cantor, MD
Robert W. Finberg, MD
Ellis Reinherz, MD
Andre Rosowsky, PhD
Ruth M. Ruprecht, MD, PhD
Stuart Schlossman, MD
Norman Letvin, MD

Steven Burakoff, MD
Arthur Pardee, PhD
Kenneth Rock, MD
Christopher Rudd, PhD
Priscilla A. Schaffer, PhD
Joseph Sodroski, MD
Kenneth McIntosh, MD

A joint appointment will be held in an appropriate department of the Harvard Medical School. Please send CV and 3 references to:

AIDS Postdoctoral Training Program
Dana-Farber Cancer Institute
44 Binney Street, Room 1D730
Boston MA 02115
FAX: 617-632-4630

The Dana-Farber Cancer Institute is an Equal Opportunity Employer.

---

**Analytical Systems Administrator**

**Fundamental background in classical as well as instrument analytical chemistry (i.e. HPLC, GC, UV, IR) and a basic knowledge of organic chemistry. Requires familiarity with installation of a Beckman CALS LIMS on a Hewlett Packard HP9000/UX Platform in a cGMP environment or comparable experience. Responsibilities in designing, installing and managing the LIMS system. Requires a degree in chemistry, good communications skills and the ability to work with others. We invite you to join us in Holland, Michigan, an area with fine schools, recreational opportunities and an excellent quality of life. We offer a very competitive salary and fringe benefit program. If you have qualifications which fit the requirements of the position listed above, apply in person or send a resume to Manager, Human Resources, PARKE-DAVIS/Division of Warner-Lambert, 188 Howard Avenue, Holland, MI 49424.

---

**Senior Program Officer/Study Director**

The National Research Council (NRC) is seeking a Senior Program Officer for its Board on Sustainable Development (BSD). Will also serve as the Study Director for Environment and Natural Resources. The recently formed Board has responsibility for a broad range of studies and activities relating to environment, natural resources, and sustainable development of natural resources and national and international economies. In addition, the Board oversees the activities of a number of NRC units relating to the US Global Change Research Program (USGCRP). The incumbent will report to the Director, NRC Board on Sustainable Development (BSD) and will be responsible for supporting the work of the Board and its standing committees, with particular emphasis on global change research studies and activities. Duties include writing, reviewing and editing background papers, meeting documents, and formal NRC reports; organizing and supporting meetings and study sessions; maintaining cognizance of key issues and identifying opportunities for new studies; conducting and reviewing scientific assessments; and assisting in maintaining staff liaison with the federal Committee on Environment and Natural Resources with specific responsibility for global change research and observing system issues. Requirements include a Ph.D. or equivalent, preferably in an environmental, life, or social sciences related field; an exceptional breadth of substantive knowledge in environmental science and policy; at least four to five years of high-level experience in environmental science and policy issues; and demonstrated ability to communicate effectively with policy-level officials in the executive and legislative branches. Applicants should send curriculum vitae and references to: Board on Sustainable Development, National Research Council (FO2080-JP), 2101 Constitution Avenue, NW, Washington, DC 20418. EOE.
POSTDOCTORAL/RESEARCH ASSOCIATE


POSTDOCTORAL RESEARCH ASSOCIATE

will design and conduct research to understand the molecular basis of the human response to bacterial polysaccharides using anti-idiotypic reagents. Work will focus on the production, characterization and sequencing of human monoclonal antibodies and the production of anti-idiotype vaccines. Interests include: 1) immunoregulation, and 2) cloning and sequencing of human Ig variable genes. (3) tissue culture and monoclonal antibody production. Send curriculum vitae, a letter, salary history, and three recommendation letters to: Personnel Services, Harbor Branch Oceanographic Institution, 6500 U.S. 1 North, Ft. Pierce, FL 34949-4466. Closing date: May 31, 1995. Affirmative Action Program/Equal Employment Opportunity.

RESEARCH SCIENTIST

The Division of Biochemical Toxicology of FDA's National Center for Toxicological Research (NCTR) has an opening for a RESEARCH SCIENTIST. Ongoing research will be conducted in the areas of molecular basis of multi-drug resistance, production, characterization and production of anti-idiotype vaccines. Interests include: 1) immunoregulation, and 2) cloning and sequencing of human Ig variable genes. (3) tissue culture and monoclonal antibody production. Send curriculum vitae, a letter, salary history, and three recommendation letters to: Personnel Services, Harbor Branch Oceanographic Institution, 6500 U.S. 1 North, Ft. Pierce, FL 34949-4466. Closing date: May 31, 1995. Affirmative Action Program/Equal Employment Opportunity.

POSTDOCTORAL RESEARCH SCIENTIST

Two-year position available July 1, 1995, for a Marine Chemist or Geochemist to study the sediment geochemistry, physico-chemical processes, and development of stable isotopes in bottom water, sediment, and/or neuston. Salary range is $30,000 to $42,000. Send curriculum vitae, letter of interest, 3 references to: Dr. Philip N. Froelich, Director, School of Oceanography, University of Washington, Seattle, WA 98195. Closing date: July 1, 1995. Equal Opportunity Employer.

POSTDOCTORAL RESEARCH SCIENTIST

Research positions available in the area of gene therapy for metabolic and cardiovascular and endocrine disorders in animal models. Ph.D. and/or M.D. applicants with previous training in vector development for gene transfer and expression are preferred. Interested individuals should send an updated curriculum vitae and a letter of interest to: Dr. Geeske Boetti, Department of Medicine, University of Virginia, P.O. Box 800294, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTIST/EMBRYOLOGIST

INVESTIGATOR at Ph.D. or advanced M.S. level needed in the area of murine reproduction. Preferred background in murine endocrinology and good in vitro fertilization skills. Send curriculum vitae, letter of interest and 3 references to: Dr. Charles Beland, Director, Biochemical Toxicology, NCTR, Jefferson, AR 72792-0002. Closing date: July 1, 1995. DHH/PHS/FDA/NCTR is an Equal Opportunity/Affirmative Action Employer. FDA is a smoke-free environment.

MIT

RESEARCH SCIENTIST/EMBRYOLOGIST

INVESTIGATOR at Ph.D. or advanced M.S. level needed in the area of murine reproduction. Preferred background in murine endocrinology and good in vitro fertilization skills. Send curriculum vitae, letter of interest and 3 references to: Dr. Charles Beland, Director, Biochemical Toxicology, NCTR, Jefferson, AR 72792-0002. Closing date: July 1, 1995. DHH/PHS/FDA/NCTR is an Equal Opportunity/Affirmative Action Employer. FDA is a smoke-free environment.

RESEARCH SCIENTIST

The University of Florida College of Medicine, Department of Otolaryngology, invites applications for an immediately available position of ASSISTANT SCIENTIST in the field of head and neck squamous cell carcinoma. The post-tenure position is open. The successful candidate is expected to have a Ph.D. and several years of post-doctoral experience. Evidence of research productivity is necessary. The post-doctoral position are immediately expected to develop an independent research program and begin to compete for external funding. The salary will be commensurate with experience. Send curriculum vitae with a brief statement of research interests, then follow with three letters of reference forwarded to: Scott D. Schuchardt, Ph.D., Department of Otolaryngology, University of Florida, Gainesville, FL 32610-0264. Deadline: May 30, 1995. Anticipating starting date, July 1, 1995. Equal Opportunity/ Affirmative Action Employer.

POSTGRADUATE RESEARCH SCIENTIST

Molecular Biologist. A full-time position exists at the postdoctoral level for an independent researcher in the area of molecular biology. Individual must have Ph.D. degree and be an expert in enzyme chemistry, molecular biology, DNA sequencing, and biochemistry and protein chemistry and tissue culture expertise. Knowledge of neural culture would also be expected. Salary range: $26,220 to $31,212 annually depending on experience and qualifications. Send resumé, description of research experience, and bibliography by June 5, 1995, to: Dr. Daniel E. Koshland, Jr., University of California, San Francisco, CA 94143. An equal opportunity employer.

MAGNETIC RESONANCE SPECTROSCOPIST

Princeton University has an immediate opening for a Ph.D. level magnetic resonance spectrometrist with knowledge in the areas of magnetic resonance imaging (MRI) and human body MR spectroscopy. A successful candidate will maintain and supervise a NMR imaging and spectroscopy laboratory with staff technicians. We are seeking an individual who is committed to high research and teaching standards. If you are interested in this position, please contact: Prof. Charles D. Orten, Operations Committee, Department of Chemistry, Princeton University, Princeton, NJ 08544. Princeton University is an Equal Opportunity/Affirmative Action Employer.

BIOLOGIST/MICROSCOPIST

The Division of Intramural Research of the National Institutes of Health invites applications for a 2 postdoctoral positions for a permanent biologist position at the GS-12 level. The successful candidate will maintain and supervise a core microscopy imaging facility and will provide technical and training support for intramural researchers and technical staff. The position will be at the GS-12 level and the candidate must be able to serve as a mentor to junior staff and be able to work collaboratively with other members of the division. Deadline: May 31, 1995. Send your current vitae, curriculum vitae, and three letters of recommendation to: NIDR Personnel, Building 31, Room 2C23, 31 Center Drive MSC 2760, Bethesda, MD 20892. For further information, contact NIDR Personnel Office, Telephone: 301-496-6971. NIH is an Equal Opportunity Employer.

STAFF SCIENTIST or POSTDOCTORAL POSITIONS are available to study the mechanism of apoptosis. Applicants should have a background in cell biology and biochemistry, with some experience in molecular biology and chemistry. For more information, call (301) 340-3075. Two-year position available immediately. Send curriculum vitae and names of three references to: Dr. Susan C. Wright, Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mountain View, CA 94043.

MOLECULAR BIOLOGIST. Recent Ph.D. with experience in recombinant protein production and fermentation technology required. Knowledge of yeast systems desirable. This person will spend one to two years in Department of Medical Biochemistry, University of Oulu, Finland and would have possibility of subsequent employment in biotechnology company in California. Send curriculum vitae with possible salary history and names of three references to: FGI, 772 Lucerne Drive, Sunnyvale, CA 94086. Equal Opportunity Employer.

H.D. SYNTHETIC CHEMIST PEPTIDES

Advanced protein research workstations with "biology intuitive" software, will soon be ready for testing and final development in world class laboratories. These powerful workstations will complement the product of biology and gene research worldwide. We seek a Ph.D. CHEMIST, experienced in Peptide Synthesis to assist in developing and maintaining a research team by working on immobilizing enzymes, special substrates, nucleic acid chemistry, synthetic peptide synthesis, etc. Send curriculum vitae, salary expectations, and a letter of interest to: H.D. Synthesis, 1415 941-8817 or fax resume to: P.O. Box 1765, Los Altos, CA 94023.
Postdoctoral Opportunities In The Biomedical Sciences.

Listed below are some of the outstanding research training opportunities that are currently available at the National Institutes of Health.

**Cell Adhesion in Metastasis**
*Kenneth Olden, PhD/John D. Roberts, PhD*

The molecular mechanisms by which cancer cells metastasize are being studied, focusing on the roles of cell surface receptors and cell adhesion. Special interests include the effects of swainssonine, or inhibitor of protein glycosylation, on tumor cells and the hematopoietic system. Candidates should have expertise in cancer biology, molecular biology and biochemistry, and less than five years of postdoctoral training. Laboratory of Molecular Carcinogenesis (OE-78), NIEHS, Mail Drop C2-14, P.O. Box 12233, Research Triangle Park, NC 27709.

**Epitope Mapping**
*Kenneth Tomer, PhD*

Mass spectrometry combined with proteolytic foot printing is being used to determine conformational epitopes of recombinant HIV proteins towards monocular antibodies. Candidates should have primary experience in protein chemistry, including affinity techniques and proteolytic techniques and have less than five years of postdoctoral experience. Laboratory of Molecular Biophysics (OE-78), NIEHS, P.O. Box 12233, Mail Drop 6-01, Research Triangle Park, NC 27709.

**Mechanism of Activated Transcription**
*David J. Clark, PhD*

Two positions are available to study the mechanism of activated transcription using yeast minichromosomes as a model system: a physiologically active gene can be isolated with its transcriptional apparatus intact and in its natural context of chromatin. Experience in protein purification or nucleic acid-protein interactions would be an advantage. Applicants must have less than five years of postdoctoral experience. Laboratory of Cellular and Developmental Biology (OE-78), NIDDK, Building 6, Room B1-12, 6 CENTER DR MSC 2715, BETHESDA MD 20892-2715.

**Molecular Biology and Fatty Acid Biochemistry**
*Darryl C. Zeldin, MD*

Novel human cytochrome P450 enzymes that metabolize fatty acids are cloned and expressed, and the catalytic properties of the recombinant proteins are evaluated by HPLC. Regulation of gene expression is studied using Northern blot analysis, RT-PCR and protein immunoblotting. Applicants should have a strong background in cell and molecular biology and have less than five years of postdoctoral experience. Laboratory of Pulmonary Pathobiology (OE-78), NIEHS, P.O. Box 12233, Mail Drop D2-01, Research Triangle Park, NC 27709.

**Neurotransmission**
*Ted Usdin, MD, PhD*

Current projects center on the study of several newly identified G-protein coupled receptors. Cloning, mutagenesis, in vitro expression, and anatomical techniques are being used to address molecular mechanisms and biological roles of these receptors. Candidates must have less than five years of postdoctoral experience. Laboratory of Cell Biology (OE-78), NIMH, Building 36, Room 3A17, 36 CONVENT DR MSC 4090, BETHESDA MD 20892-4090 (Phone: 301/402-4161, Fax: 301/402-1748, E-Mail: usdin@condon.nih.gov).

**RNA Binding Proteins**
*Susan R. Haynes, PhD*

A position is available to study the roles of RNA binding proteins in the post-transcriptional regulation of *Drosophila* development. Studies are focused on determining the mechanism of action and on identifying the RNAs and proteins that interact with the RNA binding proteins. Applicants must have experience in molecular biology, genetics or biochemistry, and have less than five years of postdoctoral experience. Laboratory of Molecular Genetics (OE-78), NICHD, Building 6B, Room 3B331, 6 CENTER DR MSC 2785, BETHESDA MD 20892-2785.

**Synaptic Transmission**
*Chris J. McBain, PhD*

A position is available to study mechanisms underlying synaptic transmission and plasticity in hippocampal interneurons using patch clamp techniques. Whole-cell and outside-out recordings will be made from visually identified interneurons in a variety of subfields maintained in the hippocampal slice under both physiological and pathophysiological conditions. A strong background in electrophysiology is preferred. Applicants should have less than five years of postdoctoral experience. Laboratory of Cellular and Molecular Neurophysiology (OE-78), NICHD, Building 49, Room 5A72, 49 CONVENT DR MSC 4495, BETHESDA MD 20892-4495.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings, you may access the NIH EDNET Bulletin Board POSTDOC conference via Internet (wyfbur.cu.nih.gov) or modem (1,301-402-2221 or 1,800-358-2221) with parameters set at "7,Even,1". When connected to NIH, type in ",vtlOO" for terminal emulation, "F5E" for initals, and "AJLI" for account number.

The Postdoctoral Research Fellowship Opportunities catalog, which describes intramural laboratories at the NIH, is also available by request. An electronic version of the catalog may be accessed via the Internet using either the Gopher Information System (gopher.nih.gov) or the World Wide Web (http://www.nih.gov). When connected, select Research Opportunities at the NIH. If you would like to request a catalog or have further questions, please contact the NIH Office of Education, Building 10, Room 1C129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, 301-402-1603, Fax 301-402-0483.

To Apply

If you hold a doctoral degree (e.g., PhD, MD/PhD, 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
NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES, RESEARCH TRIANGLE PARK, NORTH CAROLINA

RESEARCH POSITION

MISSION - The mission of the National Institute of Environmental Health Sciences (NIEHS) is to characterize the chemical, physical, and biologic factors in the environment that can adversely affect human health.

TOXICOLOGIST, GS-415-13 - A Toxicologist is sought to provide technical authority in the area of toxicokinetics for the Chemistry Branch in the Environmental Toxicology Program and the Division of Intramural Research. Duties will include both research and support in the area of toxicokinetics. The incumbent will formulate and direct plans for the conduct of original laboratory research in the area of kinetics describing the fate and toxicity of chemicals of interest to the National Toxicology Program. The incumbent will also work closely with other Program scientists to plan, direct and interpret toxicokinetic studies of chemicals under contract. As such, the incumbent may also serve as Project Officer for one or more contracts in the area of bioanalytical chemistry and/or toxicokinetics. Results from toxicokinetic studies conducted inhouse or under contract will be used to determine the effects of dose, age, sex and route of administration on the toxicity of subject chemicals and the significance of findings to human health. The incumbent should thus be well versed in the significance of toxicokinetic parameters to the toxicology of chemicals and in the use of such data to predict risks to human health.

Salary and resources will be determined by the qualifications of the candidate. The appointment has excellent compensation and benefit packages.

GENERAL REQUIREMENTS - All applicants must possess a Ph.D., D.V.M., Sc.D., M.D. degree or equivalent experience in toxicokinetics, pharmacokinetics, or a closely related field. U.S. citizenship is required for permanent positions.

For prompt consideration, send a cover letter within thirty days indicating area of interest. Curriculum Vitae, and three letters of reference to: Mrs. Norma L. Daye (HNV284), NIEHS Personnel Office, P. O. Box 12233, Research Triangle Park, North Carolina 27709.

NIH is an Equal Opportunity Employer / NIH is a Smoke-Free Environment
ANNOUNCEMENT

GRANT PROGRAM

Molecular Devices Corporation offers a limited number of equipment grants to both U.S. and International academic/government institutions performing basic research in mammalian cell biology. The intent of this grant program is to provide academic/government researchers access to the Cytosensor Microphysiometer technology at a substantially reduced cost, thereby enabling them to make novel discoveries using the Cytosensor System, with the ultimate goal of publication.

Briefly, the Cytosensor System is the latest tool for studying the physiological consequences of receptor activation; it has been shown to be particularly useful for drug discovery and signal transduction research. The System can monitor receptor-mediated responses from living cells in minutes, providing functional dose responses in just a few hours. Receptor activation can be studied even without previous knowledge of the signal transduction pathway.

For a comprehensive information package including guidelines for grant submittal, scientific publications, Application Notes, Technical Bulletins and a Reference Guide please contact:

Molecular Devices Corp.
1311 Orleans Drive
Sunnyvale, CA 94089
PH: (408) 747-3545
FX: (408) 747-3602

Deadline for Grant Submission is August 1, 1995

---

Discover A Unique Approach

Amgen Inc. is the world’s largest independent biotechnology company. We currently have the following opportunities available for our Southern California headquarters.

MANAGER, RESEARCH COMPUTING SERVICES

This individual will lead a group whose function will be to ensure that the Amgen Research staff receives ample computing support in a desktop and centralized computing environment. Candidates must have a BS in Life or Computer Science or equivalent combination of education and/or experience. This position typically requires 10 years’ computer experience; 5 years’ UNIX, VMS, DEComet and TCP/IP experience; 2 years in programming; 5 years’ experience managing computer operations in a biological research environment; 5 years’ management experience; and thorough knowledge of biological laboratory computing requirements. A Ph.D. and hands-on research experience in a life science laboratory are preferred. (Job Code: OXP-SC-2193)

RESEARCH ASSOCIATE

Protein Structure

This position requires either 5 years’ experience (with a BS) or 2 years’ experience (with a MS) in broad aspects of Protein Chemistry, specifically in protein identification and characterization. Candidates must demonstrate ability in electrophoresis (both 1D- and 2D-PAGE) and related techniques, HPLC, and amino acid sequence analysis of proteins. (Job Code: OXP-SC-1876)

At Amgen, you’ll find our approach as rewarding as it is effective. We offer a highly competitive compensation and benefits package. Please mail or fax your resume to: Amgen Inc., Staffing, Job Code: (see above), Amgen Center, Thousand Oaks, CA 91320-1789. Fax: (805) 499-9981. Principals only, please.

EEO-Affirmative Action Employer M/F/D/V. We recognize that diverse perspectives are a key factor in the process of discovery.

---

Research Positions

Pioneer Hi-Bred International Inc. is a world leader in agricultural genetics. Founded in 1939, we are a publicly held corporation with research, production, and sales organizations worldwide. Our Research and Product Development Division near Des Moines, Iowa has immediate opportunities for:

Research Associate

Research Associate – Nucleic Acid Analysis. This position will join a group responsible for analyzing transient plants. The successful candidate will interact with several research groups and will participate in planning and conducting experiments. Required skills include proficiency in nucleic acid preparation and analysis. (including Southerns, PCR, and RMA analysis.)

Education/Experience BS degree in molecular biology, biochemistry, or related field (or equivalent), plus 2 years relevant experience, or MS degree. Excellent communication skills and computer experience are essential. Experience with analytical support is preferred. Position #1086M.

Senior Research Associate

Senior Research Associate – Nucleic Acid Analysis. Primary responsibilities of this position will be to interact extensively with other researchers to design and conduct nucleic acid analysis for transient plant projects. This person will conduct analyses, supervise research associates involved in the same types of analysis, and communicate the results. Troubleshooting and development/monitoring of new techniques are also important.

Education/Experience MS degree or equivalent in molecular biology, biochemistry, or related field plus 2 years of relevant research experience is required. Applicants should have experience in nucleic acid analysis (Southern, PCR, RMA analysis), along with computer and statistical analysis experience. Strong communication skills are essential. Supervisory experience and analytical support experience are preferred. Position #1086L.

Senior Research Associate – Crop Protection. Work as a member of an interdisciplinary team in the development of transgenic maize products using genes for herbicide, insect, and disease resistance. Requires BS and 5 years of directly related lab experience, or MS and 4 years of such experience, with strong background in plant tissue culture and transformation techniques. Specialized skills in cell biology or molecular biology preferred. Team leadership, communication, and project management skills will be important. Position #1081A.

Research Associate

Research Associate – Specialty Grain Traits. Participate in design and construction of plasmid vectors. Requires BS degree with 4 years of directly related experience, or MS degree with 2 years of such experience. Applicants must have thorough knowledge of recombinant DNA methods (including DNA/RNA purification, sequencing, cloning, restriction, enzyme analysis, PCR, and bacterial transformation). Experience with computer analysis programs. Good organizational skills, ability to interact effectively in a multidisciplinary environment will be important. Position #1036.

We offer an excellent salary/benefits program, career growth potential, excellent facilities, and a cooperative research environment. Please send resume with cover letter and envelope indicating job name and number by June 2 to: Cindy LaRocca, Pioneer Hi-Bred International, Inc., 7300 NW 63rd Avenue, Box 1014, Johnston, IA 50131-1004. Applications after this date will be reviewed if a candidate has not been identified. We are an Equal Opportunity Employer.
Postdoctoral Scientists
Enzyme Biochemistry

For over 118 years, scientists at Eli Lilly and Company have been developing novel, high-quality pharmaceutical products. With a current yearly investment of approx. $840 million in R&D programs, our continued success in reducing the time required to get new drug candidates to market requires the finest scientific talent available.

We are seeking two enzyme biochemists to study (1) cell-cycle regulation and (2) rhinovirus replication. The goal of each program is to identify novel therapeutics for cancer or rhinoviruses, respectively, using mechanism-based approaches. Responsibilities include enzyme/substrate purification, characterization, assay, kinetics, and active site elucidation. A strong background in biochemistry, working knowledge in molecular biology and a publication record in enzymology are desired.

Candidates with no more than one previous postdoctoral experience are encouraged to send a CV and at least two letters of recommendation by 5/31/95 to: Sally Runyon, Corporate Recruitment WK/595, Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN 46285. Eli Lilly and Company is an equal opportunity employer committed to diversity in the workplace.

FACULTY POSITIONS
Human and Molecular Genetics

The recently established Department of Human Genetics at the Mount Sinai School of Medicine is seeking faculty at all professorial levels whose research is focused in the areas of: (1) gene discovery for Mendelian and complex traits; (2) novel molecular mechanisms of human disease; (3) murine models of human disease by gene-targeting strategies; and (4) gene therapy including novel vectors and gene delivery strategies. In addition to developing an active and competitive research program, the successful candidates will be expected to participate in teaching of medical and graduate students and postdoctoral fellows. Departmental laboratory and office space will be in a new state-of-the-science building on the Mount Sinai Campus. Rank and salary depend on qualifications and experience. Candidates with independent research funding will be given priority. Candidates should send curriculum vitae, research goals, and the names of three references to: Robert J. Desnick, Ph.D., M.D., Professor and Chairman, Department of Human Genetics, Mount Sinai School of Medicine, Box 1203, One Gustave L. Levy Place, New York, NY 10029-6574. An equal opportunity employer.

The Mount Sinai Medical Center of New York
The International Livestock and Science organization is seeking an experienced immunologist to join their team. The position is ideal for someone with a background in immunology, particularly in the context of bovine diseases. Applicants should have expertise in experimental design and be able to work independently. Experience in analyzing data and collaborating with other researchers is essential. The successful candidate will report to the Chair of the Centre for Land Use and Water Resources Research. Applications are invited from qualified candidates and should be submitted by June 16, 1995. The offer includes a generous salary and excellent benefits.
STOCKHOLM UNIVERSITY
NATURAL RESOURCE MANAGEMENT

Applications are invited for a position as Full Professor of Natural Resource Management, open from January 1, 1997. The subject of the Chair has been defined as: Natural Resource Management deals with the sustainable use and development of natural resources, using a problem definition based on natural science, but including also social, political, legal and technical aspects. Applicants should have an outstanding record of research and teaching achievements in this field.

The position is located in the Department of Systems Ecology. Salary is negotiable. The salary range for full professors within the Faculty of Mathematics and Natural Sciences is 330 000 - 420 000 Swedish Crowns/year. Applications from women are encouraged, since most professors in the Faculty are men.

Informal enquiries may be made to Professor Ragnar Elmgren, Tel +46-8164016, fax +46-8158417. The University attaches great importance to excellence in teaching, and applicants are recommended to order instructions on how to document teaching experience from Mr. Ulf Lindgren of the Staff Management Division, fax +46-8125960.

Applications, quoting reference number 611-0764/95, should reach the Registrar, Staff Management Division, Stockholm University, S-10691 Stockholm, Sweden, no later than 16 June, 1995.

Application should include four copies of the following:
1. Curriculum vitae, with photocopies of relevant graduation diplomas
2. The applicant’s full publication list
3. A brief (5-10 pages) description of the applicant’s scientific achievements and teaching and leadership experience.
4. The applicant’s 20 most relevant scientific publications, numbered as in 2 above.

Items 1 and 2 should reach the University before the end of the application period. Item 3 and one copy of item 4 should arrive no later than 7 July. Three additional copies of item 4 are to be sent later, on request, directly to the three expert members of the search committee.

KAROLINSKA INSTITUTET
Department of Bioscience at Novum Center for Structural Biochemistry
Research assistant/Postdoctoral fellow
Electron microscopy in structural biology

The position is available within the Unit for Electron Microscopy with placement at the Center for Structural Biochemistry (CSB) within the Department of Bioscience, CSB is situated at the South Campus of the Karolinska Institutet encompassing the NOVUM Research Park in Huddinge, about 20 km south of the center of Stockholm. The CSB has a staff of about 40 researchers and includes units for X-ray Crystallography, Molecular Modelling, Electron Microscopy and NMR spectroscopy. The NOVUM Research Park provides an excellent environment with over 400 researchers within various biomedical disciplines.

The research within the Unit for Electron Microscopy includes structural studies of biological macromolecules. The main focus is on membrane proteins. The research group is equipped with modern facilities for electron cryomicroscopy and extensive computing resources.

Applicants should preferably have a background in structural biology. Previous experience of electron crystallography and electron cryomicroscopy would be an advantage. However, applications are also invited from biochemists/biophysicists who wish to move into this field. The position is available for four years with an initial limitation of one or two years.

For further information contact Dr. Hans Hebert (phone +46-8 608 92 19, e-mail Hans.Hebert@csb.ki.se) for questions regarding qualifications etc and Ingvar Lennerfors for administrative questions (phone +46-8 608 92 33).

Applications should be sent to Karolinska Institutet, Department of Bioscience at Novum, S-141 57 HUDDINGE, SWEDEN together with CV, relevant publications, a short description of research interests and two recommendation letters. Please quote reference no 53021/5 and note that we want your application in 1 original and 1 copy.

Closing date: June 2, 1995

DIRECTOR
International Institute for Applied Systems Analysis (IIASA)
Laxenburg (Austria)

The Executive Council of the International Institute for Applied Systems Analysis (IIASA) invites nominations and applications for the position of Director. IIASA is an international non-governmental research organization, located in Laxenburg near Vienna (Austria) and supported by seventeen countries. The Director supervises 85 professionals and approximately 100 support staff with an annual budget of $15 million. He or she plans and oversees a broad range of programs concerned with global environmental change, develops and recommends policies for the execution of research programs, determines the effectiveness of current programs, and develops new and revised programs.

The applicant should be capable of providing an imaginative leadership in developing the potential role of an institution such as IIASA, should have a track record of general management experience in a scientific-preferably international-research institution and should have recognized experience with interdisciplinary research. He or she should have an excellent command of English, the working language of the Institute. Knowledge of at least one other major European language is desirable (preferably Russian or German).

Nominations and applications should be sent to:
Professor K.L. KOMAREK
The Director's Search Committee
IIASA-Schloss Laxenburg
A-2361 Laxenburg
Austria

Applications should be accompanied by a current curriculum vitae, a bibliography, and a cover letter that addresses the qualifications of the position. Salary commensurate with experience. Review of applications will begin on July 1st, 1995.

DEPARTMENT OF CHEMISTRY
UNIVERSITY OF AARHUS
DENMARK
PROFESSORSHIP IN CHEMISTRY

A position as full professor at the Department of Chemistry is open from January 1, 1996.

Applications are invited from chemists with documented experience in experimental inorganic chemistry. Research at the Department of Inorganic chemistry is primarily in the field of inorganic solid state chemistry, in particular preparative inorganic chemistry and crystallographic structure analysis. An applicant with documented experience in one or several of the following topics: preparative inorganic chemistry, materials chemistry, metal-organic chemistry, or catalysis, will be preferred.

The appointee will be expected to participate in teaching on the same basis as that of the institute staff.

The annual salary is approximately DKK 460,000, including retirement contribution.

The application (3 copies) should include a curriculum vitae and give evidence on which the evaluation of the applicant's scientific and teaching qualifications can be based, a complete list of publications together with 3 copies of each of those publications which the applicant selects as the most relevant for the application. Other supportive material including a description of the applicants future research plans should also be submitted in triplicate.

The selection committee may include further material from the list of publications in its evaluation of the applicant. In that case the applicant must, upon request, submit the material to the selection committee.

The selection committee's written evaluation of the applicants will be sent in full to all applicants.

Applications should be addressed to The Faculty of Sciences, University of Aarhus, Ny Munkegade, Building 520, DK-8000 Aarhus C, and marked 2116-1. The deadline for the receipt of all application material is August 22, 1995, at twelve noon.

For further information on salary, research and teaching duties, staff, laboratory and other facilities, please contact: Finn Krebs Larsen, the Department of Chemistry, Phone +45 8942 3333, Fax +45 8619 6199.
POSITIONS OPEN

IMMUNOLOGIST required in San Francisco for research program on neurodegenerative diseases to develop monoclonal and polyclonal antibodies, perform immunological assays, and maintain cell lines. Requires at least two years of experience in all aspects of antibody development including hybridoma production, ascites production, ELISA and Western blotting, and cell culture. Must be energetic and work independently. Must have B.S./M.S. in immunology or a closely related discipline. Fax résumé to 415-476-0966. Affirmative Action/EQUAL Opportunity Employer/Minority/Female/Disabled/Veteran.

ACQUISITION EDITORS

Academic Press is seeking EDITORS in life and biomedical science. Candidates should have an advanced degree in a basic science. Previous publishing experience not required. Must have strong interpersonal skills, and be familiar with scientific literature. Please send brief cover letter and succinct résumé to: Academic Press, Human Resources Department, 525 B Street, Suite 1900, San Diego, CA 92101. Equal Opportunity Employer.

MEDIICAL WRITER

Strong general biomedical background, flair for writing, ability to evaluate scientific literature and learn new subjects quickly. Pharmaceutical communications: write journal articles, lecture scripts, pharmaceutical product overviews. Send résumé to: Project House, 1 University Plaza, Suite 210, Hackettstown, NJ 07840.

Company needs a PRODUCT SPECIALIST to design new electrochemical equipment, to market instruments and provide service for technical sales, to develop spectroelectrochemical experiments for research and development in sensor applications and to produce user manuals and software documentation for battery testing instruments and impedance spectroscopy. Applicant must have a M.S. degree in Chemistry, emphasized study in electrochemistry, must have done research in the area of battery/fuel cell and corrosion fields, must know how to use computer language C and implement computer interface; and have one year of experience in chemical equipment marketing and sales. 40 hours per week, $38,650 per year. Applicant must have proof of legal authority to work in the United States. Submit your résumé and proof of qualifications in person to your local Kansas Job Service or send résumé to: Department of Human Resources, Box No. 1333, Topeka, KS 66603-3182.

ANNOUNCEMENTS

The Johnson Space Center VISITING SCIENTIST PROGRAM in Space Biomedicine supports up to six months of on-site research and additional follow-on research at the Visiting Scientist’s home institution. Sponsoring laboratories offer research positions in the following discipline areas: 1) Balance function modeling; 2) Radiation biology; 3) Biotechnology; 4) Cellular immunology; 5) Cellular physiology of muscle; 6) Water quality; 7) Biomechanics of bone; and 8) Psychology and behavior. For additional information or application materials, contact: Barbara Railsback, (US), USRA, Division of Space Life Sciences, 2600 Bay Area Boulevard, Houston, TX 77058. Telephone: 713-244-2009; Fax: 713-244-2006.

REQUEST FOR PROPOSALS TO TEST RADIOFREQUENCY RADIATION USING THE SINGLE CELL GENOMIC ASSAY

Wireless Technology Research, L.L.C. is soliciting proposals from investigators to perform tests on radiofrequency radiation using the single cell gel/DNA assay on human lymphocytes in vivo. Applicants are required to demonstrate previous experience and to consider specific elements that are detailed in the full RFP document. Deadline for proposals is June 15, 1995. For full RFP write to: Wireless Technology Research, L.L.C., 1711 N Street N.W., Suite 200, Washington, DC 20036. FAX: 202-833-2801.

POSITIONS OPEN

PROTEIN BIOCHEMIST

South Florida emerging pharmaceutical/biotechnology company seeking Ph.D. or M.S. with research lab/industry experience for product development. Back-ground in areas of protein and peptide purification and analysis. Ability to work in small, collaborative, multidisci-plinary environment. Excellent salary and relocation package. Call Joy Ross at 1-800-706-2378 or FAX curriculum vitae to 305-923-8721. Confidentiality respected, Equal Opportunity Employer.

CONSULTANT (full-time) for dynamic, established firm advising biotechnology, pharmaceutical and venture capital companies. Diverse projects require strong technical background (M.D. or Ph.D.), excellent written and verbal skills, and an ability to assimilate and apply complex scientific and business information quickly. Projects cover broad range of therapeutic categories, diagnostics and healthcare services. Send résumé, letter and names of three references to BBIG, Science Box No. 57, 1333 H Street NW, Room 814, Washington, DC 20008.

COURSES AND TRAINING

TRACER METHODOLOGY COURSE

Principles and Practice of Tracer Methodology in Metabolism. Dr. Robert Wolfe, course director. A combination of didactic and interactive sessions will address theoretical and practical aspects of tracer methodology in metabolism. Emphasis on the application of stable isotopic tracers in metabolic studies, but principles of use of radioactive tracers also covered. October 29 to November 3, 1995, in Galveston, Texas. To receive information, call: 409-770-6605 or FAX: 409-770-6825.

COMPUTER MARKETPLACE

Oligonucleotide Design Software

HYBsimulator™

Using the nearest neighbor model, HYBsimulator will simulate the hybridization of a large group of oligonucleotides with a large database (GenBank) (Computer Hybridization Simulation) to design optimal oligonucleotides with insight into the biological system. Imagine the possibilities...

A G C T (800) 494-AGCT (714) 833-9983

Circle No. 33 on Readers' Service Card

MARKETPLACE

PEPTIDE and DNA

Peptide and DNA engineering specialist:

Phosphoryl, Thiophosphoryl, Biotinyl, Chloromethyl
Cyclic, Dimers, Partial protected, FITC, DNP, pNA, CJC, Phosphoryl 1-Site and multi-Site
IonSpray MS and LC/MS

Synthetic or natural compounds analysis:

Organic, Inorganic, or coordination compounds
Drug metabolites, Enzyme digestes, etc.
$30/sample (MS), $250/sample (LC/MS)

Fax for more information (800-597-7873) or call: (612)476-1156

PeptideGenic Research & Co. Livermore, CA

Circle No. 1 on Readers' Service Card

MARKETPLACE

Polyclonal Antiseras

The HIGHEST QUALITY AT THE LOWEST PRICE

CALL FOR A FREE CATALOG

FAX: 419-454-7811

La Jolla Diagnostics

A Division of PATHFINDER HOLDING CORPORATION

900 Sherbrook

La Jolla CA, 92037

Circle No. 20 on Readers' Service Card

Capture Mouse Neutrophils!

NIM2, Cardin's new blood separation media, gives reproducible results with mouse blood in a single step. Call for details.

We Deliver Worldwide.

1-800-359-3249

FAX 505-473-5637

Circle No. 41 on Readers' Service Card

SCIENCE LOGO T-SHIRTS

BUY 2 & GET 10% OFF!

Blue type on grey 100% cotton shirt. For details or an order form, call Corrine Harris at (202) 326-6527, or fax (202) 682-0816.

Circle No. 16 on Readers' Service Card

ONLY DNA

No frills, Just good DNA at very low prices

$1.60 per base

No set-up fee

48 hour turnaround

50 nanomole synthesis

1-800-359-5794

email onlydna@win.com

Circle No. 14 on Readers' Service Card

GIRICO BRL CUSTOM PRICING

$1.19

High quality

High capacity

FAX BASE PLUS SETUP

Faster turnaround

Internet Ordering on the World Wide Web: http://www.lifetech.com

Call for easy fax ordering form: (800) 828-6686

* Setup Charge: $5.00 for Deprotected or $10.00 for Deprotected/Desalted products.

Circle No. 43 on Readers' Service Card

Marketplace ads continue on page 770

769
### MARKETPLACE

**CUSTOM ANTIBODIES TO PEPTIDES & PROTEINS**

Purification, Conjugation and ELISA Titration Available

HTI BIO-PRODUCTS, INC.
1 (800) 481-9737 OR (619) 788-9691 Fax (619) 788-9694

Circle No. 15 on Readers' Service Card

---

**SCIENTIST**

Fits Equations To Data
- nonlinear algebraic equations
- implicit algebraic equations
- Laplace transforms
- ordinary differential equations
- various splines/polynomial

1-800-942-6284
MICRO-MATH

Circle No. 24 on Readers' Service Card

---

**CUSTOM POLYCLONAL ANTIBODIES**

BEST PRICES • BEST ANIMALS

ANIMAL PHARM SERVICES
(800) 808-0550

Circle No. 22 on Readers' Service Card

---

**QUALITY CUVERTES!!!**

Inexpensive Electroporation Cuverettes
Each sterile package includes a free pipette for easy sample removal!

ETX
1-800-289-2465
FAX: 619-597-9954

Circle No. 38 on Readers' Service Card

---

**MARKETPLACE**

**DNA**

- $1.75/base
- Column Purified
- No setup fee

**PEPTIDES**

- $20/residue
- 15-40 mg in 5 days
- No setup fee

GEDNEMED BIOTECHNOLOGIES
1 (800) 344-5337 • Fax (415) 952-9540

Circle No. 21 on Readers' Service Card

---

**MARKETPLACE**

**DNA SYNTHESIS**

**Custom DNA Synthesis**

**$1.95/ Base**

200 n mole Scale
No Set-Up Fee
Column Purified
24 Hour Shipping
Q.C. by PAGE on Every Oligo

E-mail: orders@bbs.idtdna.com
Fax: 1-319-645-2921
Phone: 1-800-328-2661

Major Credit Cards Accepted

Circle No. 3 on Readers' Service Card

---

**MARKETPLACE**

**PARTICLE SIZE STANDARDS**

NBS traceable calibration standards and controls. Large assortment of diameters from 0.02 to 2000 μm: microspheres of polystyrene, glass and fluorescent materials. Free catalog available. Toll Free 800-334-3883.

In Calif 415-424-1177. FAX 415-424-1158

Circle No. 14 on Readers' Service Card

---

**MARKETPLACE**

**PEPTIDE**

FREE MASS SPEC!

- NO SETUP charge
- Free HPLC Tracing
- 15 - 40 mg

$20/residue
- 8 - 30 residues
- Shipped in 5 days

BIO-SYNTHESIS
Tel: 800-227-0627 Fax: 214-420-0442

Circle No. 47 on Readers' Service Card

---

**MARKETPLACE**

**IMMUNOLOGICAL PRODUCTS**

- RIA Kits (each) - Special Price - $200.00
- Endothelin-I, Angiotensin II, LH-RH, Calcitonin & MANY MORE
- 125I-Labeled Peptides (Per 10 μCi.) - $200.00
- High Sensitivity Peptide Antibodies
- FOR RIA AND IMMUNOHISTOCHEMISTRY • FOR YOUR FREE SAMPLE

Limited Time Offer

Circle No. 17 on Readers' Service Card

---

**MARKETPLACE**

**CUSTOM DNA SYNTHESIS**

**PURE & SIMPLE**

- Superb Technical Support
- Impeccable Quality
- World's Fastest Service
- Cap Gel & TOF Mass Spec

$19*/ per base
$10 setup
50 n mole scale

Circle No. 4 on Readers' Service Card

---

**MARKETPLACE**

**CUSTOM DNA**

Purified & Delivered in 48 hours

$5.00 per base • Purified
Guaranteed minimum 100μg

Research Genetics, Inc.
1-800-533-4363

Circle No. 5 on Readers' Service Card
NOW THAT OPERON’S DNA is just $1.20 PER BASE,
YOUR SAVINGS ARE SURE TO MULTIPLY.

Here’s something you can bank on. A 50 nmole scale synthesis of Operon’s custom DNA for just $1.20 per base, with a $10.00 set-up fee.

This new, affordable price not only means you’ll be able to conduct more experiments, it means your savings will grow with each project. And with our reputation for high-quality DNA, you’ll get the results you need every time.

Of course, we still offer our 0.2 μmole scale for $2.00 per base with a $15.00 set-up fee and our 1.0 μmole scale for $2.80 per base with a $20.00 set-up fee.

Thanks to Operon’s knowledgeable and experienced staff, you can always count on us for unmatched customer service, too. Because when it comes to meeting your needs, we really know how to hop to it.

For more information, or to place an order, call us toll-free at 1-800-688-2248.

© 1995 Operon Technologies, Inc. 1000 Atlantic Ave., Alameda, CA 94501, USA. Phone: (800) 688-2248 or (510) 865-8644. Fax: (510) 865-5255. E-mail: dna@operon.com. NIH BPA 263.00033233.

Circle No. 49 on Readers’ Service Card
RESOURCES FOR
Genome Research

MAPPARIS™: Research Genetics offers over 14,000 genetic markers which are useful in linkage and kinship studies. These highly polymorphic microsatellite markers are available for a number of species and are scored using PCR. Linkage maps based on these markers are available for the human, mouse and rat genomes and other maps are under development.

Microdissection Based Mapping: Research Genetics is pleased to announce a new microdissection based mapping service for microsatellite markers. Starting at the telomers, the appropriate chromosome will be dissected band by band. Each band will be tested for the presence or absence of the markers. Band assignment is guaranteed.

Large Insert Libraries: Research Genetics currently offers pooled DNA from mouse and human BAC and YAC libraries. These pools allow the efficient screening of the libraries by PCR, and high density membranes are available for the BAC libraries. If you prefer, you may use our custom screening service. In addition we offer a YAC contig that covers the human Y chromosome and another for the short arm of human chromosome 4.

STs: The human YAC STs content map now contains over 10,000 STs, most of which have been placed into contigs. The number of STSs is growing and the number of contigs is shrinking. All of the STSs are available from Research Genetics as well as most of the YACs. More information is available via the internet at: http://www.genome.wi.mit.edu.

Radiation Hybrids: Radiation hybrid (RH) mapping is a somatic cell hybrid technique that was developed to construct high-resolution, contiguous maps of mammalian chromosomes. RH mapping orders DNA markers spanning millions of basepairs of DNA at a resolution not easily obtained by other mapping methods. Research Genetics currently offers both the DNA from RH cell lines and also a fine mapping service.

Custom Genotyping Services: With Research Genetics' Custom Genotyping Center, all investigators now have access to high throughput genotyping without having to give up control of their work. Typical genotyping projects involving hundreds of markers can be completed in under 60 days. Complete results including both the raw genotyping data and computer files are provided.

Research Genetics, Inc.
2130 Memorial Parkway SW • Huntsville, AL • 35801
U.S. or Canada 800-533-4363 • U.K. 0-800-89-1393 • FAX 205-536-9016

2. Meyer, R.M., and D.R. Cox, personal communications

The use of microsatellite markers for genetic analysis is covered by United States and foreign patents licensed to Research Genetics. Purchasing these markers from Research Genetics or one of its agents automatically grants the user a license for all applications except clinical diagnostics. For information about how to obtain a license for clinical application, contact Research Genetics, USA 205-533-4363.

The polymerase chain reaction (PCR) process is covered by patents owned by Hoffman-LaRoche. Use of the PCR process requires a license. A license for research may be obtained by purchase and use of authorized reagents and DNA thermocyclers from the Perkin-Elmer Corp. or by otherwise negotiating a license with Perkin-Elmer.