The University of Zürich, Switzerland, invites applications for the tenured position of a RESEARCH PROFESSOR OF PSYCHIATRY. The position will be available as of April 1994. The professor will be the head of the Research Division of the Psychiatric University Hospital. Applicants should have an outstanding, internationally competitive research record. Preference will be given to candidates engaged in biological psychiatry.

Applications are to be sent before 15 June 1993 to: Chairman of the Search Committee, Professor A. Borbély, Institute of Pharmacology, University of Zürich, Gluoristrasse 32, CH-8006 Zürich, Switzerland; FAX +41-1-255 4856. Applicants are asked to first request instructions for the format of the application from: Medizinisches Dekanat, Universität Zürich, Gluoristrasse 23, CH-8091 Zürich, FAX +41-1-285 4856.

VISITING ASSISTANT PROFESSOR GENETICS/DEVELOPMENTAL BIOLOGY/CELL BIOLOGY

The Department of Biology at Wake Forest University invites applications for a non-tenure-track position beginning Fall 1993. Responsibilities will include teaching upper-level undergraduate courses in developmental biology and genetics, and serving as the core course in cell biology (two courses per semester). Opportunities for collaborative research exist in cell and molecular biology, ecology and evolution, behavior, and plant science. Send résumé, a statement of teaching goals and research interests, and three letters of reference by May 31, 1993, to: Dr. William E. Conner, Chair, Department of Biology, Wake Forest University, P.O. Box 7325, Reynold Station, Winston-Salem, NC 27109. Wake Forest University is an Equal Opportunity Employer and encourages applications from women and minorities.

Department of Neurosurgery and Brain Tumor Research Center, University of California, San Francisco, seeks ASSISTANT PROFESSOR-level B.C./S.E. neurosurgeon with skills to develop independent research program in neuro-oncology with emphasis on nervous system development and evaluation of novel therapeutic approaches, especially using genetic therapies. Candidates should be trained in molecular biology and interested in developing new technologies and research. Group interests include development of new strategies for gene therapy. Physician must be willing with design and conduct of clinical research trials, including phase I, II, and III, and have experience or training in managing such patients. Physician will actively participate in design of new studies, in preparation and submission of grant proposals, as well as in teaching of residents and postdoctoral fellows. Equal Opportunity/Affirmative Action Employer. Applications and inquiries are encouraged. Send vita to: Dr. Charles B. Wilson, M.D., Department of Neurosurgery, UCSF, Box 0112, 505 Parnassus Avenue, San Francisco, CA 94143.

ASSISTANT/ASSOCIATE PROFESSOR. Excellent opportunity for a molecular biologist interested in the biology of cancer (tumor suppressor genes, metastases, angiogenesis). Please send curriculum vitae, statement of research plans, and names of three references to: M. E. Stearns, Ph.D., Vice Chairman, Medical College of Pennsylvania, 2900 Queen Lane, Philadelphia, PA 19129.

The University of Ottawa is expanding its research activity in the field of molecular neuroscience, to be housed in new Institute and facilities. Please send curriculum vitae, statement of research plans, and names of three references to: Dr. J. R. Burdick, Department of Microbiology, The University of Ottawa, 555 31st Street, Downers Grove, IL 60515.
Research And Postdoctoral Opportunities In Molecular Biology.

Listed below are a few of the outstanding opportunities for conducting research that are now available with leading scientists at the National Institutes of Health.

**Signal Transduction and Gene Expression During Aging**
*George S. Roth, PhD*

**Senior Staff Fellow (assistant professor equivalent) and postdoctoral positions** are available to study G-protein coupled signal transduction during aging. Particular emphasis is placed on the D1 dopamine receptor and regulation of the receptor gene expression. Adrenergic and cholinergic systems are also under investigation. Applicants should be US citizens or permanent residents with experience in molecular biological techniques. Laboratory of Cellular and Molecular Biology (OE-32), NIA, Francis Scott Key Medical Center, GRC Building, Room 4E19, Baltimore, MD 21224.

**Computational Molecular Biology**
*Mark Boguski, MD, PhD*

The accumulation of partial cDNA sequences (Expressed Sequence Tags or EST) now provides a rich source of information for discovering new genes, studying patterns of expression in tissue differentiation and development, and molecular evolutionary studies. The position also involves some responsibility for management of an EST database. National Center for Biotechnology Information (OE-32), NLM, 8600 Rockville Pike, Building 38A, Room 8S-810, Bethesda, MD 20894.

**Hepadnavirus Molecular Biology**
*Roger H. Miller, PhD*

Studies on hepatitis B and woodchuck hepatitis virus gene expression and replication focus on the establishment of chronic infection and the development of hepatocellular carcinoma. Site-directed mutagenesis of infectious recombinant viruses is used for mapping genes and cis-acting elements involved in these disease processes. Experience in molecular biology is required. Laboratory of Infectious Diseases (OE-32), NIAID, Building 7, Room 201.

**Human Gene Therapy**
*Richard A. Morgan, PhD*

Improved viral vectors are being developed for use in human gene therapy for treatment of hemophilia and human retroviral diseases. Candidates should have experience in molecular biology, retrovirology, and/or cell biology. Molecular Hematology Branch (OE-32), NHLBI, Building 10, Room 7D18.

**Molecular Biology, Development and Evolution**
*Graeme Wistow, PhD*

The eye lens is a fascinating system for studying mechanisms in tissue-specific gene expression, development, differentiation and molecular evolution. Current work focuses on the molecular mechanisms of crystallin gene recruitment and lens-specific expression and growth factors and lymphokines associated with lens cell differentiation. Experience in molecular biology is required. Laboratory of Molecular and Developmental Biology (OE-32), Building 6, Room 222.

**Molecular Biology and Pharmacology of Receptors**
*Jürgen Weiss, PhD*

Two positions are available to study the molecular mechanisms governing the function, regulation, and intracellular trafficking of muscarinic acetylcholine and other G protein-coupled receptors. Background in molecular biology, cell biology, biochemistry, or molecular modeling is desirable. Applicants must have less than five years of postdoctoral experience. Laboratory of Bioorganic Chemistry (OE-32), NIDDK, Building 8A, Room B1A09.

**Trans-Dominant Transcription Factors**
*Charles Vinson, PhD*

The structural properties of the bZIP class of DNA binding proteins are being studied using physical and molecular methods to better understand dimerization specificity. bZIP mutants have been designed that are capable of forming heterodimers with wild type bZIP proteins, thereby inactivating wild type protein function in vitro. These proteins are being used in vitro to examine the inhibition of cellular differentiation. Laboratory of Biochemistry (OE-32), NCI, Building 37, Room 4D06.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference via modem (1,3014922221 or 1,8003582221). The settings for modem access are "7,Even,1." When connected to NIH, type in "y100" at the connect message, "PSE" at initial, and "PSEI" at account.

A catalog describing NIH research opportunities may be accessed via the network-based (Internet) Gopher Information System. To access the NIH Gopher server, Gopher client software (available by anonymous ftp "boombox.micro.umn.edu") must be running on your computer and configured to point to "gopher.nih.gov", port "70". Select NIH Information to reveal the NIH Office of Education directory. Those interested in receiving information on other postdoctoral opportunities, clinical training opportunities, or accessing Gopher may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

**To Apply**

If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (e.g., MD, DO, DDS, 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.

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9000 Rockville Pike, Bethesda, MD 20892
Equal Opportunity Employer
INFECTIONOUS DISEASE EPIDEMIOLOGIST: THE TULANE SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICINE invites applications for the position of TENURE-TRACK CHAIR (tenure-track) in Infectious Disease Epidemiology. Qualifications: demonstrated excellence in research and teaching in one or more areas of infectious disease research, teaching and development of a program of infectious disease epidemiology. Established research programs within the Tulane Med Center complex provide opportunities for collaboration. Send nominations or application (including curriculum vitae, statement of research goals, current funding and three letters of reference) to: Francine M. Noll, Ph.D., Chair, Department of Biostatistics and Epidemiology, School of Public Health and Tropical Medicine, Tulane University, 1430 Tulane Avenue, New Orleans, LA 70112 by June 1, 1993. Tulane University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

MEDICAL DIRECTOR OF CLINICAL RESEARCH AND DEVELOPMENT DRUG DELIVERY SYSTEMS

ALZA, a manufacturer of innovative drug delivery systems, currently requires a Medical Director of Clinical Research and Development - Drug Delivery Systems. Primary responsibility entails the leading and management of a group of 20 to 25 Clinical Scientists, Physicians, Biostatisticians, and administrative staff. You will be responsible for the design and execution of clinical development plans leading to successful product registrations. Additional responsibilities of organizing and leading the entire process and procedures relevant to successfully identify, test and select new product candidates in drug delivery systems. Further responsibilities include the preparation of Standard Operating Procedures for application to clinical R&D; must further provide senior medical representation at interested regulatory agencies, including but not limited to: Good Clinical Practices, Good Laboratory Practices, and FDA Drug Approval Practices. Must function as Chair for the Clinical Trials Board and Product Selection Committee; must be able to provide management within clinical R&D and other groups to assure provision of clinical support information as well as function as medical monitor for all study protocols; must be able to prepare comprehensive Standard Operating Procedures for application to clinical R&D; must further provide senior medical representation at interested regulatory agencies, including but not limited to: Good Clinical Practices, Good Laboratory Practices, and FDA Drug Approval Practices. Additional responsibilities include: You must have a Ph.D. or M.D. and have demonstrated expertise in the field. The successful candidate will be expected to develop an integrated, comprehensive research program in cancer-related immunochemistry and have an interest in the application of state-of-the-art immunochemical techniques to clinical problems. Women and minorities are encouraged to apply. Submit curriculum vitae and three letters of recommendation to: Dr. John J. Marchalona, Professor and Chair, Pharmaceutical and Medical Immunology, Arizona Health Sciences Center, Tucson, AZ 85724. Applications will begin to be considered July 1, 1993, until the position is filled.

UT SOUTHWESTERN MEDICAL CENTER

ASSISTANT INSTRUCTOR OF MICROBIOLOGY

Candidate should have teaching experience and established expertise in Molecular Biology to study mechanisms underlying cancer dormancy (see PNAS, 90, 1829, 1993). Send curriculum vitae, 3 references, and statement of interest to: Dr. J. W. Uhr, Department of Microbiology, UT Southwestern Medical Center, 5323 Harry Hines, Dallas, TX 75338-9048. An Application/Equal Opportunity Employer.

FACTORY POSITION IN STS WITH CONCENTRATION IN ENVIRONMENTAL STUDIES

Tenure-track position beginning September 1993. Rank: ASSISTANT or ASSOCIATE PROFESSOR, Ph.D. or equivalent degree required. Teaching experience preferred and commitment to liberal education essential. Responsibilities include teaching and developing courses for non-majors in the area of environmental studies and in the social and ethical questions related to technology. Send letter of application, résumé, and request that three letters of recommendation be forwarded to: Professor Fred L. Wilson, Chair, Department of Technology, 92 Lomb Memorial Drive, Rochester, NY 14623-5804. Cutoff date for receipt of applications is June 15. RIT is an Equal Opportunity/Affirmative Action Employer looking for individuals with an ability to contribute in meaningful ways to the Institute's commitment to multicultural diversity and pluralism.

MOLICULAR BIOLIGIST/ CELL BIOLOGIST

The Specialized Center of Research on Atherosclerosis in the Department of Medicine at the University of California, San Francisco seeks an ASSISTANT PROFESSORSHIP in Residence. Previous experience in transgenic mouse research desirable. Will join a group engaged in studies of blood vessel function in the atherogenic process. Submit curriculum vitae and names and addresses of three references to: Daniel Steinberg, M.D., Ph.D., Director, Specialized Center of Research on Atherosclerosis, U.C.S.F. Department of Medicine, 0682, La Jolla, CA 92039-0682. UCSD is an Equal Opportunity/Affirmative Action Employer.

HARVARD MEDICAL SCHOOL MASSES GENERAL HOSPITAL DEPARTMENT OF SURGERY

The Harvard Medical School and the Massachusetts General Hospital Department of Surgery are seeking a tenured FULL PROFESSOR, whose primary research interest is in vascular thrombus formation systems, especially important available resources to interact with other members of the university neuroscience community. Interests of current faculty revolve around functional and genetic role of the protease activated coagulation pathway and microvascular remodeling. The successful candidate must have credentials that qualify them for a position in the UT College of Engineering.

Comply with qualifications and experience required to qualify for the position. Send complete résumé, including list of publications and names and addresses of three references to: Chairman, Search Committee for Director, Institute of Hydraulics Research, The University of Iowa, Iowa City, IA 52242-1585. All applications will be given serious consideration and will be kept confidential.

The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Female and minority candidates are strongly encouraged to apply.

CYTOGENETICS LABORATORY DIRECTOR—The Department of Pathology at Dartmouth-Hitchcock Medical Center is seeking a full-time board-certified cytopathologist with laboratory director responsibilities. The laboratory serves 800 to 900 patients a year. Research involvement will be encouraged. Faculty rank at Dartmouth Medical School will be commensurate with experience. Applicants should send curriculum vitae, statement of research interests, and names of three references as soon as possible to: Walter W. Noll, M.D., Department of Pathology, Dartmouth-Hitchcock Medical Center, Lebanon, NH 03756. Equal Opportunity/Affirmative Action Employer.

The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
The University of Cincinnati College of Medicine announces the opening of the Chair of the Department of Physiology and Biophysics. The College of Medicine ranks among the top 30 colleges of medicine nationally in grant holdings and has significant interdisciplinary areas of distinction particularly in cell and molecular biology and cardiovascular research. The Department has a long history of excellence in education, training and basic research and the 15 full-time faculty are well supported by extramural grants.

We seek qualified candidates with demonstrated abilities in research, leadership and administration and a strong commitment to teaching. Increased support and growth within the department are expected. Applications from outstanding individuals in any area of physiology and biophysics are welcomed. Individuals able to take advantage of the University's significant investments in the transgenic and gene targeting technologies are particularly encouraged to apply. Applications and nominations are welcomed. Interested individuals should submit a curriculum vitae and the names of three references to:

Jeffrey Robbins,
Chair, Search Committee
Dept. of Pharmacology
& Cell Biophysics
University of Cincinnati
Cincinnati, OH 45267-0575

The University of Cincinnati is an Affirmative Action/Equal Opportunity Employer. Women, minorities, disabled persons, Vietnam era and disabled veterans are encouraged to apply. The UC Medical Center is a smoke-free work environment.

Opportunities for BS/MS Scientists at Pfizer

Pfizer, a U.S. based multinational pharmaceutical company, has several immediate openings for Research Assistants in its expanding Central Research Division Laboratories located in Groton, Connecticut.

Diabetes Research
Currently, we are seeking two assistants to perform experiments to examine glucose metabolism, insulin action and/or insulin secretion in research projects directed toward the discovery of novel anti-diabetic drugs. Responsibilities include biochemical analysis of tissues and cells for metabolic substrates and enzymes, radioisotopic determination of glucose metabolism, radioimmunoassays, protein purification and analysis, and determination of hormone receptor binding and intracellular signal transduction.

Expertise in subcellular fractionation and chromatographic techniques, cell isolation, radioisotopic techniques, maintenance of tissue culture cell lines, protein analysis by SDS-polyacrylamide gel electrophoresis and immunoblotting, tissue RNA isolation and analysis, and in vivo modeling is desirable. Code EBDR

Laboratory Toxicology
As a member of the Drug Safety Evaluation Department, you will be involved in defining mechanisms of toxicity as part of new drug development and testing. You will be using a variety of methods in whole animal physiology directed toward assessing the function of several organ systems. This position requires a BS/MS in physiology, biomedical engineering or a related discipline. Experience should include surgery and use of in vivo models. Familiarity with computerized data acquisition and analysis systems is desirable. Code KHIT

Behavioral Pharmacology
The primary responsibility of this position is to conduct experiments examining the effects of drugs on schedule-controlled behavior in laboratory animals. Familiarity with operant techniques including drug discrimination, as well as relevant surgical and computer skills, are preferred. Code KGBP

In addition to a stimulating research environment, we offer a competitive compensation and benefits package, including generous relocation assistance to this southeastern Connecticut shoreline community. Qualified applicants may send a resume and cover letter, indicating appropriate code on outside of envelope, a description of your experience, and names of three references, to: Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.
POSTDOCTORAL POSITIONS
Cell and Molecular Biology of Reproduction

Postdoctoral positions are available at the Worcester Foundation for Experimental Biology to study cellular and molecular aspects of reproduction. These positions are supported by an NIH training grant and individual investigator awards. The faculty and their research interests are:

Hagan Bayley, Ph.D. - Signal transduction in sperms and oocytes, molecular biology of ion channels.

Larry Daugott, Ph.D. - Mechanisms of sperm motility activation and chemotaxis; regulation of guanylyl cyclase receptors.

Harvey Florman, Ph.D. - Regulation of sperm ion channels; mechanisms of exocytosis; zona pellucida structure and function.

Daniel Kilpatrick, Ph.D. - Regulation of spermatogenic cell development and differentiation at the transcriptional level; male germ cell-specific trans-acting factors.

The Worcester Foundation for Experimental Biology offers excellent facilities and a stimulating environment for postdoctoral study. The Foundation is a private, not-for-profit research institute located on a 100-acre campus in Shrewsbury, Massachusetts, 35 miles west of Boston. Please send curriculum vitae and three references to the faculty member(s) of interest. C/O Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545, USA.

An Affirmative Action/Equal Opportunity Employer M/F/H

Worcester Foundation for Experimental Biology

Amylin Pharmaceuticals, Inc.

Amylin Pharmaceuticals, Inc. is a dynamic development-stage pharmaceutical company working on new medicines for diabetes and related metabolic disorders.

The Pharmacology department has an opening in the group responsible for investigating peptide hormone signalling in isolated tissues and cells. As a senior research scientist you would be responsible for research on the cellular localization of receptors and the search for novel peptide hormones and encoding mRNA in various tissues. You would also participate in studies of cellular actions of peptide hormone agonists and antagonists.

Requirements include a Ph.D. in biochemistry, pharmacology or a related field, experience performing anatomical localization studies using in situ hybridization, immunohistochemistry and autoradiography techniques and a track record of scientific accomplishment demonstrated by quality publications. Background in cell signalling mechanisms is also preferred. Good communications skills and the ability to flourish as a team player in a fast-moving environment are important characteristics.

Amylin is located in San Diego, offering a stimulating work environment and a top-notch scientific community. In addition, we offer an excellent salary and benefits package including stock option participation. We have brought together an impressive team of people to make new medicines based on a major scientific breakthrough. If you would like to be a part of that team, please send your resume and salary history to: A. McGovern/R.P. Amylin Pharmaceuticals, Inc., 9373 Tourne Centre Drive, San Diego, CA 92121.

Amylin is an Equal Opportunity Employer.

Scientific Director

SCIOS NOVA INC. is a biopharmaceutical company engaged in the discovery, development and commercialization of novel human therapeutics. It is seeking a senior scientist to join the Pharmacology Division at our Baltimore location.

SCIOS Nova focused its efforts in four areas of research and development: cardiovascular disease, inflammation, metabolic and reproductive disorders and tissue repair. The successful candidate will be an integral member of a strong pharmaceutical team. You will participate in the research and development of novel anti-inflammatory therapeutics through evaluation of preclinical efficacy in experimental models, and will report directly to the Director of Pharmacology.

Requirements include a Ph.D. in Pharmacology (or related biological science) plus 5-7 years' relevant experience. You should have excellent oral and written communication skills and be an active member of the scientific community.

SCIOS NOVA INC. offers a competitive salary and benefits package which includes company-paid health, life and dental insurance; prescription plan; 401(k) savings plan with a company-matching provision; and relocation.

For immediate consideration, please mail your curriculum vitae with salary history to: SCIOS NOVA INC., Personnel Dept. 92-041, 6200 Freepoint Centre, Baltimore, MD 21224-6522.

SCIOS Nova is an equal opportunity employer offering a smoke-free work environment.
Hybridon, Inc. is engaged in the discovery and development of therapeutic compounds called antisense oligonucleotides which modulate the genetic expression of target proteins associated with human diseases. Founded by a pioneer in the field of antisense technology, the company has the benefit of more than ten years of research in this field. This research base has positioned Hybridon as a leader in antisense oligonucleotide chemistry: a strong proprietary position which includes an issued U.S. patent which broadly covers the use of antisense oligonucleotides for six lead compounds: GEM 91 and 92 for AIDS, GEM 122 for influenza A, and lead compounds for herpes simplex virus, malaria and Alzheimer’s Disease.

**CHEMICAL SCIENCES**

**Analytical Chemist** Positions are available for candidates who possess a PhD in Analytical Chemistry or Biochemistry and 2 to 5 years’ experience in HPLC and spectroscopy of biomolecules. Experience in industry FT NMR and mass spectrometry is advantageous. Dept. CAC.

**Oligonucleotide Chemists** Experience in nucleotide, nucleotide and oligonucleotide chemistry necessary. Experience in the area of carbohydrate, heterocyclic or phosphorus chemistry desirable. Candidates should be familiar with related synthetic and analytical techniques. A PhD is required in related sciences. Dept. GOC.

**Research Associates** Ideal candidates possess a BS/MS with 3+ years’ laboratory experience in HPLC of biopolymers. Experience in mass spectrometry is helpful. Dept. CRA.

**PRODUCTION**

**Production Operations** Several openings in oligonucleotide synthesis and purification. These positions require 3+ years’ laboratory experience in either synthetic organic chemistry or HPLC of biopolymers. Process scale-up experience is desirable. Dept. PPO.

**Materials Manager** This position is responsible for overseeing activities related to the procurement of materials, parts and equipment, directing the activities of buyers to accomplish company objectives, and developing policies and procedures for the operation of procurement activities. Ideal candidates should be proficient in computer based systems to track raw materials, work in progress and finished goods. Desirable skills would be knowledge of pharmaceutical manufacturing, GMP and QA documentation. Waste management responsibilities include tracking and schedule removal. BS is required preferably in a scientific discipline or a related field with a minimum of 3 years’ purchasing/material experience. Dept. PMM.

**Production Technicians** Process support personnel for oligonucleotide manufacturing. Requires knowledge of general organic chemistry principles with laboratory experience. Process scale-up experience is highly desirable. Dept. PPT.

Collaborate with our outstanding team of scientists to expand on antisense technology, and bring our products to market. We offer a highly competitive salary and benefits package, as well as a convenient location in the Massachusetts Biotechnology Research Park. Please send your C.V. referencing the department, to: Hybridon, Inc., Human Resources Manager, One Innovation Drive, Worcester, MA 01605. An equal opportunity employer.
ANATOMIST: The Department of Biological Sciences invites applications for a TENURE-TRACK POSITION in anatomy. Applicants should have completed a doctorate, and postdoctoral experience including teaching assignments in human or veterinary anatomy, gross anatomy, and cross-sectional anatomy for physical therapy, dental, and other health professional students. The successful applicant will be expected to work with graduate students and develop a research program that complements existing effort in the department. This position will remain open until filled, but applicants should send a letter of application, curriculum vitae, and letters of recommendation by June 5, 1993, to: Chairman, Anatomy Search Committee, Department of Biological Sciences, 80007, Iowa State University, Pocahontas, IA 50319. Iowa State University is an Equal Opportunity/Affirmative Action Employer.

NMR SPECTROSCOPY. The University of Massachusetts at Amherst invites applications for a tenure-track FACULTY POSITION in NMR spectroscopy. Appointments will be considered at any level and in any of three departments: Biochemistry and Molecular Biology, Chemistry, or Polymer Science and Engineering, depending on the interests of the candidate. It is anticipated that the successful candidate will develop an active research program in the application of NMR methods to problems of structure and dynamics of macromolecules of natural or synthetic origin. Vigorous participation in the teaching activities of the chemical sciences community on campus is also expected. Salary is commensurate with qualifications and experience. Please send a resume, a brief statement of teaching and research interests, and three letters of recommendation to: David A. Tirrell, Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA 01003. The deadline for receipt of applications is July 1, 1993; however, the search will continue until an appointment is made. All appointments are subject to final budgetary approval. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION at Boise State University in Landscape Ecology and Computer Modelling. Applicant must have background in Ecology, GIS, and Computer Modelling. Responsibilities include modelling of dynamics of vegetation, prey, and raptor populations. Send curriculum vitae, selection of reprints, and names of 3 references by June 1, 1993, to: Dr. Mark Fuller, Director, Center for Population Biology, Boise State University, ID 83705. Telephone: (208) 486-3482. Boise State University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available to study phenotypic and genotypic expression of P450 enzymes in human subjects of different ethnic backgrounds. Experience in the characterization of P450 enzymes is desirable. Send letter and references to: Judy Raucy, College of Pharmacy, University of New Mexico, Albuquerque, NM 87131. Applications accepted up to June 30, 1993.

MOL ecULAR BIOL OGY—H EMATOPOI ETIC D IFFERENTIATION: POSTDOCTORAL POSITION to investigate the function and regulation of a novel gene that may play a role in differentiation and programmed cell death. Creativity and experience in molecular biology are desirable. Contact: Dr. Ruth C. Conboy, Department of Pharmacology and Toxicology, Dartmouth Medical School, Hanover, NH 03755—3835. Dartmouth is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and members of minority groups.

POSTDOCTORAL POSITIONS available at the Boston Heart Foundation, an academic medical research institute with staff affiliations at MIT and/or Harvard Medical School, for molecular, biochemical, and immunohistochemical studies of early events in arteriosclerosis. Join a rapidly expanding, highly collegial research group with innovative ideas. Excellent opportunity for research productivity and collaboration with neighboring institutions. Experience in cell/molecular biology, biocorganic chemistry, or experimental pathology desirable. Send curriculum vitae, brief statement of research interest, and list of three references to: Dr. Robert S. Lees, Harvard/MIT Division of Health Sciences and Technology, Building 15, Room 155, Cambridge, MA 02139.

POSTDOCTORAL POSITIONS. Available immediately to study intracellular signal transduction. One position will focus on gene regulation (ONCOGENE 8, 430—440) and the use of cDNA libraries would be an advantage. The other position will focus on receptor signalling in lymphocyte disease. Here, previous work with Dok (Western blot, interaction with interactive sites) would be an advantage. Send or FAX your curriculum vitae and names of three references (please include telephone numbers) to: Dr. Andrea Tagan, Department of Microbiology, University of Southern California School of Medicine, 1101 W. 3rd Street, Los Angeles, CA 90033—1054. An Affirmative Action/Equal Opportunity Employer.

UNIVERSITY OF WISCONSIN—MADISON

POSTDOCTORAL POSITION available July 1, 1993, for 2 years involving studies on the production and use of recombinant lentivectors to suppress foliar plant disease. Research includes efficacy, mode of action, and storage and formulation regimens to optimize effectiveness. Candidate should have experience with Molecular Biology, Plant Pathology, Microbiology, Soil Microbiology, or Microbial Ecology. Send resumes, transcripts, and the names of 3 references to: Dr. John H. Andrews, Plant Pathology Department, 1630 Linden Drive, University of Wisconsin, Madison, WI 53706. FAX: (608) 263-2626. Equal Opportunity/ Affirmative Action Employer.

POSTDOCTORAL POSITION BIOCHEMISTRY/TOXICOLOGY

Applications are invited for a 2-year postdoctoral position as a member of a multidisciplinary research team at the Monell Chemical Senses Center, Philadelphia, Pennsylvania. The successful candidate will investigate modes of action of bird and mammal repellents (e.g., stimulus-receptor interaction on trigeminal chemoreceptors). Candidates must have background and/or expertise in biochemistry and toxicology. This is a term appointment with the U.S. Department of Agriculture at the GS-11 level ($35,623 per year, including accompanying the position. The Federal Government is an Equal Opportunity Employer. For additional information, contact: the Monell Chemical Senses Center. Applications must be postmarked by June 11, 1993. For application materials (recruitment notice AG-AD-195), contact: USDA/APHIS, Human Resources Operations, Examining Unit, Butler Square, 5th Floor, 100 North 6th Street, Minneapolis, MN 55403; Telephone: (612) 370—2200.

POSTDOCTORAL POSITION IN CELL BIOLOGY

A postdoctoral scientist position will be available beginning on July 1, 1993, to pursue biochemical mechanisms of ischemia in cultured mammalian brain cells. Experience is required in tissue culture techniques, particularly involving primary cultures of nontransformed cells. Experience in cell biology, enzymology, molecular biology and NMR spectroscopy. Address inquiries to: Peter W. Stacpoole, Ph.D., M.D., Department of Medicine, Box 100226, University of Florid a, College of Medicine, Gainesville, FL 32610.

POSTDOCTORAL POSITION is available immediately to study placental hormone gene expression in rhesus monkey syncytiotrophoblasts at the Wisconsin Regional Primate Research Center, University of Wisconsin-Madison. Experience in cell biology and reproductive biology and experience in cell culture and molecular biology desired. Submit letter of application, curriculum vitae and names, addresses and telephone numbers of three references to: Dr. Therese Polos, Ph.D., Wisconsin Regional Primate Research Center, University of Wisconsin, 1223 Capitol Court, Madison, WI 53715—1299. Telephone: 608—263—5867, Email: golos@primate.wisc.edu. The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available immediately to study the molecular basis for triacylglycerol droplet recycling in mammalian cells. A strong background in molecular biology is required. Experience with expression libraries is desirable. Send curriculum vitae and names of three references to: Dr. Rosalind A. Cohen, Department of Microbiology, University of North Carolina, SPH CB# 7400, Chapel Hill, NC 27599—7400, UNC is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Supported by an NIH grant, available July 1, 1993, to study molecular biology, to clone plasmid DNA libraries to involve PBR recombinant DNA, site-directed mutagenesis, documentation of genetic variants, eukaryotic cell expression, structural and functional characterization of recombinant proteins. Send curriculum vitae, selected papers and references (ref. Dr. Harold L. James, Professor of Microbiology, University of Southern California School of Medicine, 1101 Zonal Avenue, HMR-401, Los Angeles, CA 90033—1054) to the Department of Microbiology, University of Southern California School of Medicine, 1101 Zonal Avenue, HMR-401, Los Angeles, CA 90033—1054. An Affirmative Action/Equal Opportunity Employer.
Arctic Research Consortium of the United States, Inc.

The Arctic Research Consortium of the United States (ARCUS) is seeking a highly qualified individual to serve as its President and Chief Executive Officer. ARCUS is a national non-profit corporation, consisting of member institutions involved in arctic research and education. ARCUS provides leadership in and promotion of these activities.

The President provides leadership for the Consortium, is responsible to its Board of Directors, manages the affairs of ARCUS, and supervises its staff. The President recommends and implements the programs and policies established by the Board of Directors; develops and administers ARCUS programs and activities; represents the corporation in contract, grant, and financial negotiations with government and private funding and banking entities; and interacts with the arctic research community to assess and advance its needs and priorities. The President represents ARCUS interests and concerns to other groups and organizations to ensure that quality programs and services exist to meet the needs of the arctic research and education community.

Applicants are required to have a Ph.D. or its equivalent. Applicants should also have at least five years of experience in the design and conduct of research in the Arctic and at least five years of experience in the design and management of interdisciplinary research. Demonstrated excellence in the ability to communicate and function effectively with diverse constituencies within the scientific and education community, the policy making community, and the general public is highly desirable. Successful experience in the preparation, negotiation, and management of grants and contracts, as well as in direct responsibility for fiscal management, is a must.

Salary will be negotiated. ARCUS offers a competitive benefits package. ARCUS is currently based in Fairbanks, Alaska.

Send applications, including curriculum vitae and four references, for receipt by 15 May 1993, to:

President Search Committee
Dr. Mark F. Meier, Chair
ARCUS, Inc.
600 University Avenue, Suite B
Fairbanks, AK 99709

ARCUS is an Equal Opportunity, Affirmative Action Employer and invites and encourages applications and nominations from women and under-represented minorities.

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AMGEN

Our entrepreneurial environment naturally evolves as a function of our mission: the development of recombinant DNA-based human therapeutics, utilizing the principles of cellular and molecular biology...through rapid product development and innovative commercialization strategies. We currently have an opportunity for the following professional:

Research Associate in Stem Cell Biology

Candidate for this position must have a BS/MS degree in Biochemistry, Cell Biology or related field, with at least two years research experience, preferably with an emphasis on hematology and/or immunology. Additionally, candidate should have experience in tissue culture, protein characterization and assay development. Knowledge of receptor biology and experience with animals are desirable.

At Amgen, we invest our employees with the freedom to manage their affairs, regulate the quality of work, and make decisions within company goals. And we back this freedom with meaningful challenge and responsibility, as well as a compensation and benefits package that reflects the level of our commitment. If you're interested in this position, please submit your resume, for confidential consideration, to: Amgen Inc., Staffing, Job Code OA-SC-JC-005, Amgen Center, Thousand Oaks, CA 91320-1789.

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

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SR. RESEARCH CHEMIST/FOOD SCIENCE

Cargill, Inc., a world leader in agriculture and industry, located in Minnetonka, Minnesota, a suburb of Minneapolis, has an opening in our Research Department for a Senior Research Chemist.

To qualify for this position, applicants must have an undergraduate or graduate degree in Chemistry and a Ph.D. in Cereal or Food Science with an emphasis on the chemical-physical properties of food or food materials. We are looking for a special person—one who has specialized in the physio-chemical (material) properties of food ingredients and how they function (mechanistically) in finished food products. You will have the freedom to initiate and execute innovative projects—to develop food ingredients leading to new businesses. You must then be willing and able to sell management on the pursuit of those new ideas and projects. You must have 1-10 years of academic or industrial experience beyond the Ph.D., including experience in baked goods, dry food products or food ingredients. Exceptional communication and teamwork skills are required.

Cargill offers a competitive salary and benefit package and long term career opportunities. The quality of life in the Twin Cities is second to none. Qualified candidates may respond by sending a current resume, with cover letter to Donna Bloom, HRD #10, Cargill, Inc., P.O. Box 9300, Minneapolis, MN 55440.

Equal Opportunity Employer/No phone calls please

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ARCUS

President and Chief Executive Officer.

activities; in line with diverse needs.

contract, and financial negotiations with government and private funding and banking entities; and interacts with the arctic research community to assess and advance its needs and priorities. The President represents ARCUS interests and concerns to other groups and organizations to ensure that quality programs and services exist to meet the needs of the arctic research and education community.

Applicants are required to have a Ph.D. or its equivalent. Applicants should also have at least five years of experience in the design and conduct of research in the Arctic and at least five years of experience in the design and management of interdisciplinary research. Demonstrated excellence in the ability to communicate and function effectively with diverse constituencies within the scientific and education community, the policy making community, and the general public is highly desirable. Successful experience in the preparation, negotiation, and management of grants and contracts, as well as in direct responsibility for fiscal management, is a must.

Salary will be negotiated. ARCUS offers a competitive benefits package. ARCUS is currently based in Fairbanks, Alaska.

Send applications, including curriculum vitae and four references, for receipt by 15 May 1993, to:

President Search Committee
Dr. Mark F. Meier, Chair
ARCUS, Inc.
600 University Avenue, Suite B
Fairbanks, AK 99709

ARCUS is an Equal Opportunity, Affirmative Action Employer and invites and encourages applications and nominations from women and under-represented minorities.

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AMGEN

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Equal Opportunity Employer/No phone calls please
Cardiovascular Postdoctoral Fellowship

The Cardiac Cellular Mechanisms Laboratory of PARKE-DAVIS Pharmaceutical Research is accepting applications for a Postdoctoral Research Fellow with basic research interests in the cell biology, biochemical pharmacology and molecular physiology of heart muscle. Primary research areas are focused on understanding the cellular and molecular changes involved in myocardial ischemia, and specifically include 1) the cellular biochemistry of preconditioning and novel signal transduction pathways by which adenosine mediates cardioprotection, 2) cellular and molecular physiology of models of ischemia, and 3) study of contractile protein degradation in disease.

Qualifications include a Ph.D. in biochemistry, molecular biology or related fields. Candidates with experience in membrane biochemistry or signal transduction preferred, with knowledge of basic procedures in molecular biology, tissue culture and protein purification desired. Applicants should demonstrate strong research skills and high motivation, and will have opportunities to interact with collaborating investigators. Presentation of data at internal and national scientific meetings, and an established record of publication are essential.

Applicants should submit their curriculum vitae, a statement of current and intended research interests, and the names of three references to Box JDM-PD92, Human Resources Department, PARKE-DAVIS Research Division, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"

ARIAD, a fast-growing biopharmaceutical company located in Cambridge, MA, is developing a new class of drugs that selectively target intracellular communication pathways to alter the course of disease. ARIAD combines the most recent advances in molecular cell biology with the sophisticated tools of structure-based drug design to develop novel small molecules for human health care.

SENIOR SCIENTIST
MAST CELL BIOLOGY
ALLERGY/ASTHMA THERAPY

ARIAD is seeking a cell biologist/immunologist to develop assays for inhibitors of mast cell activation and to investigate the IgE receptor signal transduction. The successful candidate will work closely with molecular biologists and chemists in developing assays and evaluating candidate inhibitors. A Ph.D. and at least two years postdoctoral research experience working with mast cells in an academic institution or pharmaceutical company is required.

ARIAD offers a competitive salary and benefit package including incentive stock participation. Interested individuals should send a resume and the names of three references to: Dr. Joan Brugge, ARIAD Pharmaceuticals, Department M, 26 Landsdowne Street, Cambridge, MA 02139.

ARIAD is an equal opportunity employer.
RESEARCH FELLOWSHIP POSITIONS

The Basic Research Branch in the National Center for Biotechnology Information has openings for local and foreign post-doctoral scientists interested in mathematical and statistical analysis in molecular biology, biological database design and analysis, and the study of the elucidation of macromolecular function. Applicants must have a Ph.D. or M.D. degree or equivalent. Applicants need not necessarily be U.S. citizens. These positions are available in groups directed by the following senior investigators:

- Stephen Altschul - Measures of sequence similarity and methods for sequence comparison.
- Mark Boguski - Signal transduction motifs; sequence repeats, genome informatics.
- Stephen Bryant - Database methods for protein structure prediction.
- Jean-Michel Claverie - Large scale sequence analysis and genome research.
- Eugene Koonin - Comparative analysis of genome organization and the evolution of viruses.
- David Landsman - Non-histone chromosomal proteins; nucleosome and chromatin structure.
- Charles "Chip" Lawrence - Statistics applied to molecular and structural biology.
- David Lipman - Computational molecular biology and molecular evolution.
- John Spouge - Analysis of sequence information and biological diffusion-reaction processes.
- John Wilbur - Optimization of textual information retrieval.
- John Wootton - Computational molecular biology and subtle sequence information.

Stipends start at or over $25,000 per year depending on experience. Applications will be accepted until January 31st, 1994 although there are a limited number of positions available. Candidates should send a curriculum vitae and the names, addresses and telephone numbers of three references directly to one of the above at:

National Institutes of Health, National Library of Medicine
National Center for Biotechnology Information
Building 38A, Room 8N-803
Bethesda, MD 20894
U.S.A.

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, physical or mental handicap, age, or membership or non-membership in an employee organization.

NIH is an Equal Opportunity Employer

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RESEARCH OPPORTUNITIES IN BIOTECHNOLOGY

The Department of Biotechnology Research is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment. Successful candidates will be expected to interact extensively with ongoing programs in transformation, gene expression, gene isolation or RFLP programs.

PROJECT COORDINATOR, TRANSFORMATION TECHNOLOGY (JOB #1361-B) - We have an immediate opening for a highly motivated scientist to coordinate a research group working on transformation technology for corn. Transformation technology includes projects on development of transformation methods for elite genotypes as well as site-specific integration. In addition to coordinating the group, the Project Coordinator will also be encouraged to conduct independent research related to transformation technology.

EXPERIENCE: PhD or equivalent experience in plant transformation, plant cell biology, molecular biology or related field and 3 years experience in leading a research team. Experience in goal setting and project time lines is also needed.

SENIOR RESEARCH ASSOCIATE, CELL BIOLOGIST (JOB #1361-D) - The person in this position will have responsibility for a project on herbicide resistance in corn and will work directly on producing transgenic corn plants for the project. The individual will interact with other researchers working on a variety of agronomically important traits. EDUCATION/EXPERIENCE: MS degree in plant biology or equivalent experience plus 2 years directly related lab experience in corn tissue culture and transformation; or BS degree plus 4 years relevant experience. Experience in producing and analyzing transgenic corn plants, familiarity with computers and statistical analysis, good communication and organizational skills and skill in project management are also required.

Applications received by MAY 30, 1993 will be assured of consideration. However, applications will be considered until the positions are filled.

Pioneer Hi-Bred International, Inc. is an Equal Opportunity employer. Please send TWO (2) sets of resume information for each position you are applying. Indicate in your correspondence the JOB #, and the names, addresses and telephone numbers of three references to:

PIONEER HI-BRED INTERNATIONAL INC.
Plant Breeding Division, Dept. of Biotechnology Research
Attn: Jo Ann Jorgensen JOB #__________
P.O. Box 38 • Johnston, IA 50131-0038

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REGIONAL MEDICAL ASSOCIATES

SmithKline Beecham is a $9.2 billion global pharmaceutical and health care company. Our world famous products and reputation mean unsurpassed opportunities for individuals to combine their scientific and marketing expertise as Regional Medical Associates.

Our Regional Medical Associates establish relationships within major medical institutions for the purpose of acting as scientific liaison and providing in-depth information regarding SmithKline Beecham products. This includes the training of representatives and medical professionals. Travel 40%.

To qualify, you must have a Ph.D. in Pharmacology, Toxicology, Microbiology or related life sciences. Strong marketing and communication skills and a high degree of initiative are also required. Opportunities currently exist in the Ohio, Rocky Mountain and West Virginia areas.

We offer one of the best compensation packages - including a car - in the industry. If you'd like to be a part of our success, send your resume with salary history to: SmithKline Beecham, Central Employment, FP1135, 200E North 16th Street, Philadelphia, PA 19101. We are an equal opportunity employer, M/F/D/V.

SmithKline Beecham
POSTDOCTORAL POSITION—PLANT MOLECULAR BIOLOGY

A position is available immediately to study the molecular basis for peroxisome induction. Studies in both yeast and mammalian cells, are aimed towards understanding the regulation of gene expression in response to agents that cause peroxisome proliferation. The candidate should have experience with recombinant DNA technology required. Please send curriculum vitae and the names of three references to: Kimberly M. Smith, Department of Cell Biology, Box 8231, Washington University School of Medicine, St. Louis, MO 63110. Email: kimsmith@cemw.wustl.edu. An Equal Opportunity Employer.

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Scientists

Miles Inc., Diagnostics Division, a worldwide developer of clinical laboratory instruments, is expanding its research and development activities in the fast-growing and challenging area of automated, high sensitivity immunoassays.

There are immediate positions available for forward thinking R&D scientists, at the Ph.D. level, with solid academic training and 3-4 years' industrial or postdoctoral experience in immunochemistry, protein chemistry, or immunoassay development.

Challenging career opportunities are also available for highly motivated scientists at the BS/MS level with immunoassay product development experience.

The Diagnostics Division offers an environment conducive to professional growth as well as an excellent compensation and benefits program. Send CV in confidence to: Manager of Human Resources, Technical Staffing, Miles Inc., Diagnostics Division, 511 Benedict Ave., Tarrytown, NY 10591. An Equal Opportunity Employer M/F/H/V.

NIH Post-Doctoral Position

Anti-Vβ Reagents In Rhesus Models of Autoimmune and Retroviral Diseases

The Laboratory of Molecular Biology has developed novel immunotoxins directed at components of the rhesus T cell receptor complex which induce profound peripheral T cell depletion in vivo. The aim of this project is to investigate rhesus models of autoimmune diseases which exhibit unique Vβ (or Vα) restrictions, identify these restrictions and quantify the effects of depleting the involved subset on the disease process. The role of preferential Vβ susceptibility in SIVmac infection is also of interest. Junior or Senior positions are available and diverse backgrounds will be considered. Please forward curriculum vitae and the names of three references to:

Dr. David M. Neville Jr.
Section on Biophysical Chemistry
Laboratory of Molecular Biology
National Institute of Mental Health
Bldg. 36 Room 1808
9000 Rockville Pike
Bethesda, Maryland 20892.

Inquiries by FAX will be accepted at 301-402-0245.

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Discover Treatments For the Causes, Not the Symptoms

At ImmuLogic, our discoveries have allowed us to develop an advanced understanding of the events controlling the human immune system. Through advanced research in immunology and pharmaceutical product development, we’re focused on developing therapeutic products for type 1 diabetes, rheumatoid arthritis, and other autoimmune disorders. At our state-of-the-art research facility in Palo Alto, California, we have the following:

CURRENT OPENINGS

CELLULAR IMMUNOLOGIST

Will investigate the events leading up to T cell activation in human immune mediated diseases, and the sub-cellular processes involved in antigen processing. This program requires the development of novel techniques, the use of traditional techniques, as well as interaction with collaborators and consultants.

Requirements: Ph.D. in Immunology or related field. Minimum of 2 years of relevant postdoctoral experience in human T cell immunology with “hands on” experience in T cell cloning and characterization.

PEPTIDE CHEMIST

This individual will investigate the structural requirements for MHC class II-antigen binding via the design and synthesis of peptides and peptidomimetics.


PROTEIN CHEMIST

Using traditional and novel protein chemistry techniques, will identify, clone and purify autoantigens important in type I diabetes and rheumatoid arthritis.

Requirements: Candidates must have a Ph.D. in Biochemistry or a related field; at least 2 years of relevant postdoctoral training with expertise in purification and characterization of proteins from tissue, as well as interaction with collaborators and consultants.

We’re in a position to offer you exceptional opportunities and support for your professional stature, as well as an excellent compensation and benefits package. Please send your C.V. to: Human Resources, ImmuLogic Pharmaceutical Corporation, 855 California Avenue, Palo Alto, CA 94304. An equal opportunity employer.
The successful candidate must have a Master's degree; a doctoral degree is preferred. A broad understanding of the diverse research areas comprising the biological sciences, excellent communication skills and a demonstrated capacity for fundraising, problem solving, managerial decision making and consulting are required.

The Associate Director is responsible for the administration and direct management of the Center. This individual works under the advisement of the Director and executive committee, and with center staff to define and implement Center goals. The Associate Director coordinates the effective use of Center resources in promoting initiatives within the campus community to enhance precollege and undergraduate education. A key participant in planning and policy development, the Associate Director must be familiar with the dynamics of research, teaching and service in a university setting and current science education reform issues. Other responsibilities include: program development, staffing, grant writing and fiscal management. As the supervisor of Center staff, the Associate Director demonstrates a consultative management style in a collaborative, team-oriented environment.

This full-time position is available July 1, 1993. The salary minimum is $40,000, with excellent fringe benefits. To apply, send a letter of interest, curriculum vitae, statement of philosophy and three letters of reference to Dr. Louise Liao, Center for Biology Education, University of Wisconsin, 660 WARP Bldg., 610 N. Walnut St., Madison, WI 53705. Completed applications must be received by May 20, 1993. The names, titles and addresses of applicants cannot be kept confidential.

The University of Wisconsin is an equal opportunity employer.
ANNOUNCEMENT

Congratulations to

ROBERT NEIL BUTLER  CYRUS CONRAD JOHNSTON, JR.
M.D. M.D.
NEW YORK, USA  INDIANAPOLIS, USA

on being awarded the

1993 SANDOZ PRIZE FOR
GERONTOLOGICAL RESEARCH

by the Jury of the
International Association of Gerontology

With this prize,
the IAG honors distinguished personalities
for their achievements in gerontological research and
leadership in activities for the betterment of life of elderly
fellow citizens in all parts of the world.

SANDOZ PHARMA LTD, BASLE/SWITZERLAND
POSITIONS OPEN

RESEARCH ASSOCIATE POSITION to manage the automated DNA sequencing section of the W. M. Keck Faculty Biotecnology Resource Laboratory at Yale University. Applicants should have a Ph.D. in biochemistry or a related science and extensive experience with DNA sequencing and molecular biology techniques. Candidates should also have good interpersonal and communication skills. Opportunities will be provided for independent research that may focus on improving DNA sequencing methodology, on human genome mapping or sequencing, or on other topics that are complementary to research that is ongoing within the laboratory of K. Williams on understanding structure/function relationships in the human nucleic acid binding proteins. The successful applicant will be encouraged to pursue independent research support as well as to assist in the preparation of shared instrumentation grant proposals. The position will be available this summer and the salary will be commensurate with the level of experience. Curriculum vitae should be sent to: Ken Williams, Ph.D., W. M. Keck Foundation Biotecnology Resource Laboratory, Boyer Center for Molecular Medicine, 295 Congress Avenue, New Haven, CT 06536-0812. Yale University is an Equal Opportunity Employer.

GENETIC EPIDEMIOLOGIST

For cancer genetics research program. Must be able to take a leadership role in supervision of a registry of high-risk patients, and to facilitate multi-institutional collaboration. Candidates should have postdoctoral experience in both epidemiology and human genetics. The position carries an appointment at Cornell University Medical College. Working conditions and stipend are attractive. Send resumes to: Dr. D. G. Miller, Strang Cancer Prevention Center, 426 East 72nd Street, New York, NY 10021.

The Biotechnology Patent Examining Group of the Patent and Trademark Office is currently recruiting scientist candidates for positions as PATENT EXAMINERS. Individuals with advanced degrees and/or equivalent experience in the fields of immunology, molecular biology, gene therapy, transgenic animals, animal science, biochemistry, protein engineering and microbiology are urged to send a resume or SF-171 to the following address:

Patent and Trademark Office
Office of Personnel
Box 171
Washington, DC 20223

K. Clark (180)

For further information, call (703) 308-1123. U.S. CITIZENSHIP REQUIRED FOR EMPLOYMENT.

RESEARCH SCIENTIST IN PHARMACOLOGY

COLUMBIA UNIVERSITY, COLLEGE OF PHYSICIANS AND SURGEONS

Advanced skills required in cardiac electrophysiology and pharmacology including microelectrode techniques, measurement of membrane resistance and conductance, experience using models of ischemia, hypoxia, and reperfusion. Advanced knowledge of antiarrhythmic drug pharmacology and electrophysiology essential. Applicants must be fluent in English, knowledge of either German or Russian useful to facilitate ongoing international collaboration. Annual salary $40,000. Send curriculum vitae and the names of three references to: Dr. Michael R. Rosen, Department of Pharmacology, Columbia University, 630 West 168th Street, New York, NY 10032. FAX: (212) 305-8780. Columbia University is an Equal Opportunity/Affirmative Action Employer.

COURSES AND TRAINING

COURSE ON CRYOPRESERVATION OF MOUSE EMBRYOS

May 24-28, 1993

and

October 25-29, 1993

All aspects of zygote and cleavage-stage embryo cryopreservation will be taught in this "hands-on" course. Co-directors: Dr. W. E. Markert, The Jackson Laboratory and S.P. Leibo, University of Guelph. For further information contact: Ms. Linda Neleski, The Jackson Laboratory, 1200 Maine Street, Bar Harbor, ME 04609. Telephone: (207) 288-3371, FAX: (207) 288-8982 or 288-5079, Email: lem@jax.org.

ANNOUNCEMENTS

ENTREPRENEURIAL SCIENTIFIC/EMERGING COMPANIES

There are a number of excellent reasons why the Colorado Bio/Medical Venture Center is the place to launch your new bio/medical company:

- We provide you with a research campus, labs, university and business ties, regulatory assistance, fund-raising help and administrative support.
- Located in Colorado means a superb quality of life, low costs, easy national and international access, and a high quality work force. Plus, you'll be part of a growing community of world-recognized research institutions such as the University of Colorado, Colorado State University and the National Jewish Center for Immunology and Respiratory Medicine, and more than 200 biomed companies, including high profile Synergyn, Ribozyme, Cobe Laboratories and Spectranetics.
- Investigate the possibilities for you and your company today. Call (303) 237-3998, FAX: (303) 237-4010 or write us at: CBVC, 1610 Pierce Street, Lakewood, CO 80214.

MEETINGS

CONFERENCE ON PLAGIARISM AND THEFT OF IDEAS

sponsored by the Office of Research Integrity and the American Association for the Advancement of Science will be held June 21-22, 1993, at the National Institutes of Health in Bethesda, Maryland. This conference will address issues related to handling allegations of plagiarism and theft of ideas in scientific research. Topics to be discussed include the intellectual and historical concepts of plagiarism, recent institutional inquiries/investigations of plagiarism, allegations of plagiarism and theft of ideas in peer review, and the role of computers in scientific misconduct. For further information contact: Alan Price, ORI, 5515 Security Lane, Suite 700, Rockville, MD 20852; Telephone: (301) 443-5330; FAX: (301) 227-0039.

SCIENCE

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Mention this ad to receive 10% discount.

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$7.50 per base • Purified
Guaranteed minimum 100 µg DNA

Research Genetics

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The Human Frontier Science Program (HFSP) aims to promote, through international collaboration, basic research to elucidate the complex mechanisms of living organisms, including man. Applications are solicited for the support of research grants, fellowships and workshops in the areas set out below. The program distributed about $16 m on new awards this year and aims to spend a similar amount in 1994.

### Research Areas of the HFSP

(A) Basic research for the elucidation of brain functions
1. Elementary processes
2. Perception & Cognition
3. Movement & Behaviour
4. Memory & Learning
5. Language & Thinking

(B) Basic research for the elucidation of biological functions through molecular level approaches
1. Expression of Genetic Information
2. Morphogenesis
3. Molecular Recognition & Responses
4. Energy Conversion

### Types of Support

Research Grants: Grants for basic research (up to 3 years) carried out jointly by research teams in different countries. The principal applicant must be from one of the eligible countries*.

Fellowships: Long-Term (up to 2 years), Short-Term (up to 3 months): Fellowships for researchers from the eligible countries who wish to do research in foreign countries, or for researchers outside the eligible countries who wish to do research in one of the eligible countries.

Workshops: Grants for international workshops organized by researchers from the eligible countries.

* Current eligible countries are Canada, France, Germany, Italy, Japan, Switzerland, U.K., U.S.A. and non-summit EC member countries.

### Application Deadline: September 1st, 1993

For Research Grants and Long-Term Fellowships, the awards will be announced in April 1994. Applications for Short-Term Fellowships and Workshops can be submitted throughout the year. Guidebooks and Application forms may be obtained upon written request by using the address form below. Previous years' forms are not accepted.

### Request Deadline: August 1st, 1993

Forms for Research Grants & Long-Term Fellowships will not be available after August 1, 1993.

Please use the form below to request information (please print).

<table>
<thead>
<tr>
<th>Last name:</th>
<th>First name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institute:</td>
<td>Address:</td>
</tr>
</tbody>
</table>

Check squares to indicate which program you are interested in.

- [ ] Research Grant
- [ ] Long-Term Fellowship
- [ ] Short-Term Fellowship
- [ ] Workshop

Request to be sent to: H.F.S.P.O., Tour Europe, 20 place des Halles, 67080 STRASBOURG CEDEX FRANCE
Tel: (France 33) 88 32 88 33 Fax: (France 33) 88 32 88 97

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Speed is maintained within 10 rpm of set value with no overshoot regardless of rotor used. Run times are ± 1 second for exact replication of runs.

More Tubes Per Run
Spins 24 x 1.5 mL, 48 x 0.5 mL or 40 x 0.4 mL and accepts all common microtube formats including screw-cap designs, microtube filters and micro spin columns.

More Separating Power
Forces to 16,250 xg for faster, more complete separations. Produces up to 25% more G's than other routine microfuges.

More Convenience
Low profile design and exposed rotor chamber make loading/unloading quick and easy. Cover gently pops open at end of run.

More Useful Features
Unique accel/decel rate controls permit greater flexibility for delicate samples; self-diagnostics prevent errors and simplify service if it's ever needed.

More Value
Outperforms competitive units yet cost about the same or less. Built for years of trouble-free operation.

INTRODUCING
IEC MicroMax®
DIGITAL MICROCENTRIFUGE

If you're looking for more in a microcentrifuge, don't settle for less than the new IEC MicroMax.

Call or write to request a demo today!

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