effective purification of mRNA directly from tissues, cells, or plants. The isolated mRNA is intact, pure, and suitable for complementary DNA synthesis, reverse transcriptase polymerase chain reaction, Northern blots, and oocyte microinjection. Invitrogen. Circle 144.

Universal FTIR Sampling System
The DuraSampIR universal sampling system is designed for use with all popular analytical Fourier transform infrared spectroscopy systems. The instrument addresses the varied needs of analytical testing and research labs with its ability to handle a very broad range of samples including solids, powders, liquids, pastes, films, and gels. Unlike other internal reflection sampling systems, the instrument makes use of a multi-reflection diamond composite material in contact with the sample. Applied Systems. Circle 145.

In Situ PCR System
The GeneAmp In Situ PCR System is the first complete system for reproducible in situ polymerase chain reaction (PCR), according to the manufacturer. The system performs in situ PCR on a glass slide without the need for DNA extraction. The system consists of a high-throughput thermal cycler with an innovative vertical 10-slide sample block. Up to 30 samples can be amplified in a single run, which is achieved by the use of uniquely designed consumables that eliminate the need for mineral oil or adhesives and by specially formulated reagents. The system’s ability to locate specific nucleic acid sequences within cell types in a mixed cell population will make it a useful tool for studying infectious diseases, gene expression, molecular oncology, gene therapy, and other types of applied genetics. Specifically, the system will enable researchers to identify cells having latent viral infections, find unique gene alterations associated with neoplastic disorders, locate gene rearrangements, reveal chromosomal translocations, and analyze cell-specific gene expression. Perkin-Elmer. Circle 146.

Literature
Carver Laboratory Presses and Accessories describes a line of 54 standard hydraulic laboratory presses, including automatic benchtop, pellet, rubber stamp, and laminating presses, as well as accessories and recirculating chillers. Carver. Circle 147.

Removal of Ionic Interferents from Ion Chromatography and Capillary Electrophoresis Samples is a technical guide describing new solid phase extraction disk and membrane technology. Phenomenex. Circle 148.

NALGENE Sanitary Fluid Transfer Systems is a brochure describing platinum-cured silicone tubing. The tubing is nontoxic, non-pyrogenic, and nonhemolytic. Nalg. Circle 149.

The Precision Advanced Series describes a line of toploading balances. Ohaus. Circle 150.
How to Submit a Classified Ad:
Prepare double-spaced typewritten copy. Do not include any abbreviations. Science will edit and typeset ads according to Science guidelines. Include billing information, and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training, Search Firms. Science cannot provide proofs of typeset line ads.

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Telephone: 202-326-6555
FAX: 202-682-0816
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(please include telephone number in email correspondences)

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Science reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.
NEW NIH/NCI TENURE-TRACK PATHWAY
Positions Equivalent to Assistant Professor

A new tenure-track pathway has been created within the intramural program of the National Institutes of Health, National Cancer Institute, to provide an opportunity for outstanding candidates completing postdoctoral training to establish themselves as independent investigators. Successful applicants for tenure-track positions will receive a long-term commitment of salary, personnel, and other research resources needed to conduct an independent research program. The following positions are available at a level equivalent to that of an Assistant Professor:

Drug Development for the Treatment of Childhood Cancers
Philip Pizzo, M.D.

Position available to develop new anticancer drugs for the treatment of childhood cancers with an emphasis on central nervous system and meningeal tumors, the study of the clinical pharmacology of anticancer and antiretroviral drugs in children, and the delineation of new approaches to the treatment of childhood acute lymphoblastic leukemia with an emphasis on effective, less toxic central nervous system preventive therapy. These new therapies are investigated in preclinical in vitro and animal models and in phase I, II, and III clinical trials. Resources include laboratory space, shared facilities, equipment and supplies, and support of two postdoctoral fellows and one technician. Candidate must have M.D. degree with training and experience in Pediatric Hematology/Oncology, clinical pharmacology (including pharmacokinetics) and drug development. Candidate should also have experience with preclinical animal models (including rodents) and in vitro tissue culture models. Pediatric Branch, NCI, Building 10, Room 13N240, 10 Center Drive MSC 1128, Bethesda MD 20892-1928.

Late Radiation Effects
Paul Okunieff, M.D.

Position available to focus on the understanding and prevention of late radiation effects including fibrosis, organ dysfunction, vascular damage, and carcinogenesis. Resources include clinical and laboratory space, shared facilities, equipment and supplies, and support of two fellows and shared clinical personnel. Candidate must have M.D. degree and be board certified in radiation oncology. Candidate should have proven ability to develop clinical protocols that test hypotheses based on pre-clinical studies and have solid experience and understanding of radiobiological laboratory techniques, assays for repair of radiation damage, as well as molecular biological studies of growth factors and cytokines. The candidate would be expected to conceive and perform clinical and laboratory studies to better understand the interaction between radiation and cytokines in tumor and normal tissue. Radiation Oncology Branch, NCI, Building 10, Room B3B69, 10 Center Drive MSC 1002, Bethesda MD 20892-1002.

Gene Cloning
Steven Rosenberg, M.D.

Position available to clone the genes that encode cancer antigens. The Surgery Branch, NCI, has begun a major program in which gene cloning will be an important step in developing effective cancer vaccines for the treatment and prevention of cancer. Resources include laboratory space, equipment and supplies, and support of one technician. Candidate must have M.D. or Ph.D. degree and be experienced in molecular biology and cellular immunology. Extensive experience in gene cloning and analysis of human cellular immune reactions is essential. Surgery Branch, NCI, Building 10, Room 2B42, 10 Center Drive MSC 1502, Bethesda MD 20892-1502.

Pharmacokinetics
Louis Malspeis, Ph.D.

Position available to perform basic and applied research on newly identified anticancer and anti-HIV agents to bring new chemotherapeutic agents to clinical trial. Pharmacokinetics research on new drug candidates will contribute to a basic understanding of their in vivo disposition and will support appropriate selections for development. The studies will contribute to the optimization of preclinical, and subsequently the clinical, efficacy evaluations. Resources include laboratory space, equipment, supplies, and technical support. Candidate must have Ph.D. degree and have demonstrated ability to (1) develop specific quantitative analytical and pharmaceutical chemistry methods for anticancer and anti-HIV drug candidates of broadly diverse chemical structures in biological fluids with sensitivity in the nanomolar to low micromolar concentration range; (2) design and conduct preclinical pharmacokinetic studies in rodents, dogs, and monkeys; (3) characterize and identify the major metabolites of the chemotherapeutic agents; (4) chemically synthesize and evaluate lead and potential metabolites; and (5) employ pharmacokinetic parameters for the selection for the compound with the greatest potential for clinical efficacy among a series of congeners. Laboratory of Pharmaceutical Chemistry, NCI-Frederick Cancer Research and Development Center, Fairview Center, Room 206, P.O. Box B, Frederick, MD 21702-1201.

Development of Novel Therapeutic Agents
Edward A. Saussville, M.D., Ph.D.

Position available to serve as the leader in the development of novel therapeutic agents directed at protein kinases that mediate signal transduction. The incumbent will be expected to acquire a nationally recognized prominence in the regulation of cell growth by protein kinase-dependent signaling pathways. In particular, delineation of structural motifs or regulatory relations in kinase networks that could serve as a basis for drug discovery efforts will be approached at a fundamental level. Resources include laboratory space, shared equipment, supplies, and support of one technician and up to two postdoctoral fellows. Candidate must have M.D. or Ph.D. degree and must demonstrate capacity to develop assays for, clone, express, and purify protein kinases and have expertise in biochemical, pharmacology and pharmacokinetic methodology. Office of the Associate Director, Developmental Therapeutics Programs, NCI, Executive Plaza North (EPN) Room 843, 6130 Executive Boulevard MSC 7458, Bethesda MD 20892-7458.

Translation Studies
Dan L. Longo, M.D.

Position available to conduct preclinical and clinical studies designed to determine whether the immune system can be used to target cancer cells in vivo. Candidate will target specific tumor antigens and use modern immunologic and genetic technologies to attempt to induce immunity and to monitor the results. Resources include laboratory space, equipment and supplies, and support of two postdoctoral fellows. Candidate must have M.D. degree and have a thorough understanding of basic science and possess the clinical acumen necessary to manage cancer patients and apply basic laboratory findings to clinical problems. Clinical Research Branch, NCI, NCI-Frederick Cancer Research and Development Center, Building 576, Room 101, P.O. Box B, Frederick, MD 21702-1201.

TO APPLY

Please send a cover letter, curriculum vitae, bibliography, and a two-page statement including research interests and career goals to the address listed with each position. In addition, arrange to have letters of reference sent to the same address from three scientists who can provide an evaluation of your qualifications. Applications must be received within six weeks of the publication of this advertisement.

The NIH/NCI is an Equal Opportunity Employer.
ASSISTANT PROFESSOR, Nutrition, Food Science and Human Nutrition Department, Institute of Food and Agricultural Sciences, University of Florida; 12 month tenure-track (80% teaching and 20% extension). Qualification: Ph.D. in agriculture, public health nutrition, or related discipline. Registration (R.D.) with The American Dietetic Association is preferred. Duties and responsibilities include: teaching and academic advising, and graduate and undergraduate students in nutrition sciences, collaboration with the nutrition and diet extension team, and development of an extension program providing nutrition education to target populations. Application requirements: curriculum vitae, transcripts sent directly from the institutions, minimum of three letters of recommendation, and a statement outlining career goals as well as teaching and professional interests. All information must be submitted by October 2, 1995, to: Dr. Peggy Borum, Chair, Search and Screen Committee, 122 School of Human Nutrition Department, IFAS, University of Florida, P.O. Box 110370, Gainesville, FL 32610-3707. Telephone: 904-392-7853; FAX: 904-392-9467.

The University of Florida is an Equal Opportunity/Affirmative Action Institution and encourages applications from women and minorities.

RESEARCH ASSISTANT PROFESSOR

The Department of Molecular Genetics and Biochemistry, University of Pittsburgh, School of Medicine invites applications for a RESEARCH ASSISTANT PROFESSOR (non-tenure) to become part of a multidisciplinary research program to examine new gene therapy strategies for treatment and prevention of neurodegenerative disease using HSV vectors. Candidates should possess a Ph.D. in biochemistry, chemistry or related discipline with specific experience in gene therapy or related research. Relevant areas of expertise should include primate models of neurodegenerative disease, novel methods for production of virus vectors and protein-DNA interaction in transcriptional control of gene expression in the nervous system. Interested persons should submit a letter of intent and curriculum vitae to: Dr. Joseph C. Gliorioso, Professor and Chair of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine, E1240 Biomedical Science Tower, Pittsburgh, PA 15260. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

The University of Pittsburgh is expanding its active Program in Bioengineering which has been designated as one of the thrust areas for the School of Engineering. The Bioengineering Program, which is jointly sponsored by the School of Medicine, offers an M.S. and Ph.D. in Bioengineering; an undergraduate B.S. in Bioengineering is being developed.

Curricula for M.S. and Ph.D. are 25 faculty closely associated with the Program in Bioengineering. Their respective disciplines span the fields of biomechanical engineering, biochemistry, cellular biology, tissue engineering, rehabilitation engineering, ergonomics, control systems and biomedical imaging.

We are seeking a senior level person who will hold a FACULTY POSITION in Chemical Engineering and will have a leadership role in the further enhancement of our research and educational programs. The incumbent should hold a Ph.D. and have significant experience in an academic setting including a proven track record of leadership and scholarly accomplishment. This is a full-time, tenure stream appointment. Consideration of applications will begin on July 1, 1995, and will continue until the position is filled. A complete dossier should be sent to: Dr. Jerome Schultz Center for Biotechnology and Biomedical Engineering The University of Pittsburgh 300 Technology Drive Pittsburgh, PA 15213

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

POSTDOCTORAL POSITION to study NK cell differentiation in the rodent uterus during pregnancy and the role of decidual factors and cytokines. Experience in cellular immunology and/or molecular biology preferred; Ph.D. or equivalent required. Available August or September 1995. Send curriculum vitae and three references to: Dr. Judith Head, Green Center for Reproductive Biology Sciences, The University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75390-9051 USA. FAX: 214-648-8683. An Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study the mechanism of immunoglobulin gene somatic hypermutation, using genetic and biochemical approaches. Please send curriculum vitae, statement of research interests, and names of three references to: Dr. Nancy Maizels, Department of Molecular Biology and Biochemistry, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06520-8024.

The DIRECTOR is expected to be actively involved in human gene research, with particular emphasis on his/her role in coordinating campus activities in this area including medical genetics, molecular cytogenetics, neurogenetics, cancer genetics, genomics, and multifactorial inheritance.

The Laboratory, currently titled Laboratory of Radiobiology and Environmental Health, is located on the UC campus in a building with approximately 11,000 square feet of open laboratory space with additional square feet owned by the Department of Energy. The current total annual budget of the laboratory from the Department of Energy and other sources is approximately $4 million per year.

Applicants must be qualified for appointment as professor in an academic department at UCSC. Please send a current curriculum vitae, statement of research interests, and names of appropriate references to: Regis B. Kelly, Ph.D., Chair, Human Gene Research Search Committee, Laboratory of Radiobiology and Environmental Health, University of California, San Francisco, 513 Parnassus Avenue, Room S-224, San Francisco, CA 94143-0410.

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

DEAN, SCHOOL OF ALLIED HEALTH SCIENCES

The University of Vermont invites applications and nominations for DEAN of the School of Allied Health Sciences. The successful candidate will have leadership in planning, developing, and administering the School’s programs, and guides the development of human resources. The School offers the B.S. and M.S. in medical technology, health administration, and the A.S. in dental hygiene, nuclear medicine technology, and radiation therapy.

Candidates must have a distinguished record adequate to meet the standards for academic tenure at the University. The successful candidate must have outstanding leadership, administrative skills; successful experience in strategic planning, fiscal management, securing funding; and demonstrated commitment to academic achievement and promoting racial, cultural and gender diversity.

Applications will be considered until this position is filled. Review of applications begins on August 15, 1995. Letters of application should be sent to: Search Committee for Dean of Allied Health Sciences, 601 Main Street, The University of Vermont, Burlington, VT 05401-3441.

The University of Vermont is an Equal Opportunity/Affirmative Action Educator and Employer. Women and ALANA candidates are especially encouraged to apply.

ENDOWED CHAIR in PHARMACOLOGY

UNIVERSITY OF CALIFORNIA, IRVINE

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

POSTDOCTORAL POSITION available immediately to perform molecular modeling studies of the conformation and binding interactions of anti-gpl20 antibody-antigen complexes containing multidimensional, solution NMR techniques. Background in physical chemistry and biochemistry is required. Send curriculum vitae and three references to: Dr. Valerie Daggett, Department of Medicinal Chemistry, University of Washington, Seattle, WA 98195-7610. Email: daggett@ftes.mechse.washington.edu.

NMN POSTDOCTORAL POSITION available immediately to perform a structure activity study of anti-gpl20 antibody-antigen complexes using multidimensional, solution NMR techniques. Background in physical, biological, or chemical NMR and/or chemistry or Biochemistry is preferred. Please send curriculum vitae and three letters of reference to: Dr. Neal DePierre, Department of Chemical Biology, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4931. Equal Opportunity/Affirmative Action Employer.

NMR POSTDOCTORAL POSITION available immediately to perform a structure activity study of anti-gpl20 antibody-antigen complexes using multidimensional, solution NMR techniques. Background in physical, biological, or chemical NMR and/or chemistry or Biochemistry is preferred. Please send curriculum vitae and three letters of reference to: Dr. Neal DePierre, Department of Chemical Biology, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4931. Equal Opportunity/Affirmative Action Employer.
Senior Scientist
Department of Pharmacology, Astra Pain Research Unit, Montreal

Astra is a pharmaceutical company with highly international operations encompassing the research, production and marketing of pharmaceuticals through subsidiaries in 35 countries. The products are marketed in an additionally large number of countries through agents and licenses. The Company employs over 13,000 people worldwide, of whom 5,000 are in Sweden.

Astra Canada
As a link in the worldwide chain of subsidiaries, Astra Canada was established in 1954. With a staff complement of over 500 people, Astra has recently completed construction of a new state-of-the-art manufacturing, laboratory and warehouse facility on its present site in Mississauga. Astra markets and sells brand name products which are used in 5 major therapeutic areas.

Based in this newly established unit, you will work with a large team of scientists involved in advanced pain research. To succeed, you must possess several years of postdoctoral experience and a superior record of academic achievement. A background in pharmacology is desirable and experience in industrial drug discovery would be an asset.

We offer a competitive salary, generous benefits package and a stimulating scientific environment. If you are motivated by the challenges of this position, please forward a curriculum vitae and a statement of past achievements and future interests to:

Dr. Andy Dray, Head of Department of Pharmacology, Astra Pain Research Unit, 275, boul. Armand-Frappier, Edifice 3000, Laval, Quebec, Canada H7V 4A7 Fax: (514) 973-3031.

We thank all applicants for their interest, however, only those being considered will be contacted. No telephone inquiries or agencies, please.

An Equal Opportunity Employer.

VISITING INVESTIGATOR PROGRAM
NATIONAL CENTER FOR HUMAN GENOME RESEARCH
NATIONAL INSTITUTES OF HEALTH

The Visiting Investigator Program provides tenured or tenure-track faculty level scientists from outside the NIH with the opportunity to spend a 3 - 12 month period at the National Center for Human Genome Research (NCHGR) laboratories and clinics at the NIH. Visiting investigators can use their stay at the NCHGR to learn new technologies, develop research collaborations, or pursue sabbatical research projects. Basic and clinical genetic researchers and social scientists may access the Center's laboratories, core facilities, clinics, and training programs for investigating human genetic disease, including the social implications of genetic research. Partial funding of salary support is available, as well as funding for research related expenses while at the NIH. Project proposals planned for one year are preferred in order to enhance the possibility of accomplishing research objectives. A curriculum vitae and a supporting letter from the candidate's department head (or equivalent individual) must accompany the application. No incomplete application will be submitted for committee review. Applications for the cycle beginning January 2, 1996 must be received by September 1, 1995.

For application materials and information, contact:
Betty Wolf-Ledbetter, Director
Visiting Investigator Program, NIH/NCHGR, Building 9, Room 1E106
9 Memorial Drive MSC 0950, Bethesda, MD 20892-0950
Fax: 301-402-2440
E-Mail: vip@nchgr.nih.gov

Women and minority candidates are strongly encouraged to apply.

Visiting Senior Scientist
Life and Biomedical Sciences and Applications Division
The Jet Propulsion Laboratory is seeking a Visiting Senior Scientist for the Life and Biomedical Sciences and Applications Division within the Office of Life and Microgravity Sciences and Applications at NASA Headquarters. The successful applicant will (i) assist in the coordination and planning of the Space Physiology and Countermeasures Program (ii) assist in the coordination of the Neurolab Space Shuttle Mission, and (iii) interact with the neuroscience research community to inform them about the activities of the neuroscience research program. A PhD (or equivalent research experience) in Neuroscience is required. Applicants should have a broad background in neuroscience and behavior, and have experience in grants management and program planning, familiarity with NASA's ground and flight research programs, and science policy experience are also desirable. Applicants need to be able to start work in Washington, DC in August, 1995. For more information about the scope of the program and position responsibilities, please contact Dr. Frank M. Sulman, at the NASA Life and Biomedical Sciences and Applications Division (202) 358-0220.

Tenured faculty members are the preferred choice although qualified individuals from non-profit research institutions may also be considered. This position is open for immediate filling. Normal assignment in the Visiting Senior Scientist Program does not exceed two years. Appointees must be U.S. Citizens or Permanent Residents and are expected to return to their home institution following the NASA assignment. Please provide Curriculum Vitae, bibliography and the names of four references to:

Dr. Fredrick H. Shair,
Jet Propulsion Laboratory,
4800 Oak Grove Dr. MS/183-900,
Pasadena, California 91109.
(818) 354-8251. EOE.
Applications and nominations are invited for the position of Director of the NCEAS. The Center is supported by an initial 5-year grant from the National Science Foundation and matching funds from the State of California and the University of California at Santa Barbara (UCSB). The Center promotes collaborative research on fundamental problems in ecology and on environmental problems of national importance by supporting visiting scientists. Additional information on the Center is available via the World Wide Web at http://surfin.ncgia.ucsb.edu or by contacting William Murdoch, Interim Director.

The Director has overall responsibility for running the Center, with the aid of a Deputy Director and management and computing staff; reports annually to NSF, and is advised by a Scientific Advisory Board (SAB) and External Advisory Committee. To help the Director maintain an active research program, resources and strong administrative support are provided.

The Director provides scientific leadership, fosters an environment that inspires collaboration, and needs a clear and imaginative scientific vision, a receptiveness to alternative scientific views, and an unwavering commitment to the highest possible quality research. The Director should be an outstanding ecologist with an enviable research record, demonstrated organizational and management skills, good interpersonal skills and a fully articulated commitment to the goals of the Center.

The Director is expected to hold the position for at least 4 years. UCSB recognizes that the Director will likely want to sustain an academic career. Therefore, subject to approval by the relevant disciplinary department, and provided the successful candidate meets the University’s criteria for scholarly excellence, the University will appoint the successful candidate to a permanent tenure facility position, if the appointee so desires. Selection of the Director will be done by the SAB and requires NSF’s approval.

Applications and nominations, to William Murdoch, Department of Biological Sciences, University of California, Santa Barbara CA 93106, will be accepted until September 30, 1995 or position is filled. Applicants should send letter of interest with statement of vision for Center and career goals, cv, and four letters of recommendation at time of application. Nominations should contain a letter of support for the nominee. An Equal Opportunity/Affirmative Action Employer.
POSTDOCTORAL FELLOW: Computational Chemist. Terrapin Technologies, an emerging biopharmaceutical company, seeks a recent Ph.D. to be part of our computational chemistry group. The position involves developing and supervising a background in multivariate analysis, neural nets, clustering methods or noise reduction techniques, to be applied in new technologies for drug discovery. Apply to: Human Resources, 750 H. Gateway Boulevard, South San Francisco, CA 94080. FAX: 415-244-9388. Equal Employment Opportunity/Affirmative Action Employer. 

POSTDOCTORAL RESEARCH FELLOW position available August 1995 to study the molecular biology of G-protein coupled receptors. Experience with invertebrates is preferred. Send curriculum vitae and three references to: Dr. Edward Glazer, Department of Physiology, University of Michigan Medical School, 1088 Tisch, Ann Arbor, MI 48109-0084. An Equal Opportunity/Affirmative Action Employer. 

POSTDOCTORAL FELLOW position available September 1996 to study the role of nicotine in the regulation of cholesterol 7a-hydroxylase in the liver. Experience with invertebrates and cloning, sequencing and expression; protein purification, protein/DNA interactions; gene transfer and tissue culture techniques preferred. Please submit curriculum vitae to: Human Resources, Att: Dr. John Y. L. Chiang Department of Pathology and Molecular Pathology, Northwestern University Medical School, 733 North Michigan Avenue, Suite 900, Chicago, IL 60611-4402. An Equal Opportunity Employer. 


POSTDOCTORAL RESEARCH FELLOW position available immediately to participate in ongoing studies to clone and characterize a novel protein involved in the regulation of calcium transport and bone metabolism. Previous successful cloning experience and experience in cytochrome assays are required. The position is available for up to three years. Applicants should send a curriculum vitae and arrange for three letters of reference to be sent directly to: Dr. Diane K. Kalu, Department of Physiology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7756. The University of Texas Health Science Center at San Antonio is an Affirmative Action/Equal Opportunity Employer. 

RESEARCH ASSOCIATE: Valid Technology Incorporated (VTI) is a growing consulting firm that needs support in writing evaluations of commercial technology in molecular biology, biochemistry, cell biology, immunology, and pharmacology. This support requires individuals current in their respective fields who are actively participating in research and have the ability to devote four to six hours per week. Competitive salary and benefits. Send curriculum vitae, description of past research accomplishments and interests, and three references to: S. Biwas, Professor, Department of Molecular Biology, Science Center, University of Medicine & Dentistry of New Jersey, Stratford, NJ 08084. 

RESEARCH FELLOWS: Department of Ophthalmology, University of Minnesota College of Medicine, 300 University Avenue SE, Suite 321, Minneapolis, MN 55455. Two fellowships are available immediately to work with Dr. Crafts at the University of Minnesota Medical Center. The fellowships are supported by the National Eye Institute and the National Institute of Aging. These fellowships are available until June 30, 1996, upon request. Applicants should have a Ph.D., M.D. or equivalent degree in the health sciences and should have a good background in molecular genetics, biochemistry, cell biology, and pharmacology of the eye. Applications should be sent to: Dr. Crafts, Department of Ophthalmology, University of Minnesota Medical Center, Minneapolis, MN 55455. Applications are accepted until the positions are filled. 

POSTDOCTORAL RESEARCH ASSOCIATE position available immediately to work with Dr. Terry Weiss at the University of Minnesota Medical School in the Department of Ophthalmology and Visual Sciences. Applicants must have a Ph.D., M.D. or equivalent degree with a strong background in molecular genetics, biochemistry, cell biology, or pharmacology. Experience in gene cloning, sequencing, and expression is required. Send curriculum vitae, letter of application, and three references to: Dr. Terry Weiss, Department of Ophthalmology, Vision Sciences, University of Minnesota, 420 Delaware Street SE, Minneapolis, MN 55455. Applications are accepted until the position is filled. 

POSTDOCTORAL FELLOW position available immediately at the University of California, San Francisco, to work with Dr. D. H. Weiss in the Viral Oncology and Cell Cycle Research Laboratory. The position is a 1-year position with possibility of renewal and is available immediately. The applicant must have a Ph.D. or equivalent degree in molecular virology or cell biology, and have a strong background in molecular genetics. Send curriculum vitae, letter of application, and three references to: Dr. D. H. Weiss, Department of Microbiology and Immunology, University of California, San Francisco, CA 94114-3906. 

POSTDOCTORAL FELLOWSHIP position available immediately at the University of Illinois Cancer Center, Chicago, IL 60637-4319, to work with Dr. D. H. Weiss in the Viral Oncology and Cell Cycle Research Laboratory. The position is a 1-year position with possibility of renewal and is available immediately. The applicant must have a Ph.D. or equivalent degree in molecular virology or cell biology, and have a strong background in molecular genetics. Send curriculum vitae, letter of application, and three references to: Dr. D. H. Weiss, Department of Microbiology and Immunology, University of California, San Francisco, CA 94114-3906. 

POSTDOCTORAL RESEARCH FELLOW available immediately at the University of California, San Francisco, to work with Dr. D. H. Weiss in the Viral Oncology and Cell Cycle Research Laboratory. The position is a 1-year position with possibility of renewal and is available immediately. The applicant must have a Ph.D. or equivalent degree in molecular virology or cell biology, and have a strong background in molecular genetics. Send curriculum vitae, letter of application, and three references to: Dr. D. H. Weiss, Department of Microbiology and Immunology, University of California, San Francisco, CA 94114-3906. 

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RESEARCH ASSOCIATE: Available to study the role of estrogen in the development of breast cancer. The project involves cloning, sequencing and expression of estrogen receptor and characterization of a transmembrane factor. Send curriculum vitae, description of past research accomplishments and interests, and three references to: Dr. S. K. Bilaniuk, Professor, Department of Molecular Biology, Science Center, University of Medicine & Dentistry of New Jersey, Stratford, NJ 08084. 

RESEARCH FACULTY POSTDOCTORAL FELLOWS: Valid Technology Incorporated (VTI) is a growing consulting firm that needs support in writing evaluations of commercial technology in molecular biology, biochemistry, cell biology, immunology, and pharmacology. This support requires individuals current in their respective fields who are actively participating in research and have the ability to devote four to six hours per week. Competitive salary and benefits. Send curriculum vitae, description of past research accomplishments and interests, and three references to: S. Biwas, Professor, Department of Molecular Biology, Science Center, University of Medicine & Dentistry of New Jersey, Stratford, NJ 08084. 

PEPTIDE CHEMIST Research opportunity for a Peptide Chemist to participate at The University of Chicago Diabetes Research Center. Qualifications include a Ph.D. or M.S. with substantial experience in peptide synthesis. Please send curriculum vitae and names of three references to: Michael A. Weiss, Director for Molecular Oncology & Department of Chemistry, The University of Chicago, 924 East 57th Street, R310, Chicago, IL 60637-5419, Affirmative Action/Equal Opportunity Employer.
ASSISTANT PROFESSOR
DEPARTMENT OF MICROBIOLOGY & IMMUNOLOGY
The University of British Columbia

Applications are invited for a tenure-track position in the Department of Microbiology and Immunology. We seek a strong candidate who could interact with established departmental research programmes in the areas of bacterial pathogenesis, immunology, molecular biology or virology. Individuals using molecular approaches to study aspects of microbial pathogens, antimicrobial drug resistance or host cell: microbe interactions are especially encouraged to apply. Starting date of appointment will be January 1, 1996.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents. The position is subject to final budgetary approval.

The University of British Columbia welcomes all qualified applicants, especially women, aboriginal people, visible minorities, and persons with disabilities.

Please submit application, curriculum vitae, together with the names of three referees, by August 31, 1995 to:

Julian E. Davies, Ph.D., F.R.S.
Professor and Head
Department of Microbiology and Immunology
University of British Columbia
300-6174 University Blvd.
Vancouver, B.C. CANADA
V6T 1Z3

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

Potamkin Prize for Research in Pick’s, Alzheimer’s and Related Diseases

A prize of $100,000 will be awarded by the American Academy of Neurology to a person(s) in recognition of major contributions to the understanding of the cause of the prevention, treatment, and ultimately the cure for Pick’s, Alzheimer’s and related diseases.

Candidates may be nominated on a worldwide basis from any of the biological disciplines including biochemistry, molecular biology, molecular genetics, pharmacology, immunology, physiology, cell biology, neuropathology or epidemiology.

A nomination application, nominating letter citing the scientific accomplishments of the candidate in detail, two supporting nominating letters, a curriculum vitae, and up to six (6) selected reprints in nine (9) complete sets are required.

The deadline for receipt of materials is November 1, 1995. No nomination will be considered unless it is complete. The awardee(s) must be present for the AAN Scientific Program, at its annual meeting in San Francisco, California, on Tuesday, March 26, 1996.

Request application and submit nomination to:

Potamkin Prize for Research in Pick’s, Alzheimer’s and Related Diseases
American Academy of Neurology
2221 University Avenue S.E., Suite 335
Minneapolis, MN 55414
(612) 623-8115

The Potamkin Prize is funded through the philanthropy of the Potamkin Foundation.

ANNOUNCEMENT

42nd Rachford Lectures
September 18 and 19, 1995

Transcriptional Control of Embryogenesis

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

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

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

Abstracts (5 1/4" W X 8 1/2" H) for poster presentation may be submitted by registered participants. Details will be included with registration materials. Please submit abstracts before August 1.

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

Registration deadline: July 15
Registration fee:
Students and trainees $50;
Faculty $75
RESEARCH and DEVELOPMENT CHEMIST for firm in northern CT area to design and perform experiments for the development of drug delivery systems for pharma-ceutical products, including the following: controlled release tablets, sustained release capsules, and novel drug delivery systems; with the D. R. Reynolds companies in the development of novel applications of polymers/resins to develop the drug delivery systems. Supervise two technologists and additional personnel. Minimum of 2 years experience in this area. Contact Employment Services, P.O. Box 1618, Columbus, OH 43216.

PROCESS ENGINEER. Responsible for research, development, and scale-up of new production processes for industrial manufacturing. Develop, specify, and validate novel scalable antibacterial-free recombinant microbial fermentation and recovery processes and equipment for making antibiotic-free recombinant microbial products used in research and clinical trials. Provide scale-up evaluations for processes and equipment for expansion of fermentation and recovery processes; conduct and interpret fermentation and recovery process investigations. Select appropriate processes and equipment for implementation of processes. Perform feasibility studies and finalize production and recovery processes for clinical trials and/or commercial production and provide SOPs in conjunction with these. Implement cGMPs, validation, and associated documentation. Coordinate with other groups to develop specifications for processes to achieve required production and recovery goals. Develop fermentation (batch, fed-batch, and continuous) performance by quantifying and characterizing conformation of raw products, and analyzing and improving the product and RNA syntheses, and genetic (segmental and structural) stability. Design and perform research to enhance productivity and recovery, replication control, medium and fermentation optimizations, by vector selection, and genetic stability improvement. Contribute to designing of backbone expression vectors to enhance productivity and genetic stability. Train scientists and operate, maintain, and troubleshoot process and equipment. Forty hours per week. M.S. in Biochemical Engineering and either six months or more of related experience in research in recombinant microbial fermentation with emphasis on plasmid replication and segregation and structural stability improvement as described above. Experience with run-away replication and replication mechanisms of different replicons, antibiotic-free continuous fermentation, and production of therapeutic products is essential. Equal Opportunity Employer. Send resume to: Texas Employment Commission, Houston, Texas, or call: 713-678-7811. Resume to be held.$30,000 per year.

USDA, Agricultural Research Service, Appalachian Fruit Research Station, Kearneysville, West Virginia announces an interdisciplinary postdoctoral position in Molecular (segregational and continuous) means to the mechanism of action of pesticides, xenobiotics and related biologically active compounds. The laboratory staff includes 16 Ph.D. and 10 master's degree scientists. The CATS is currently soliciting applications in a relatively wide range of areas from which specific qualified candidates will be selected. Applicants must hold a Ph.D. or equivalent degree with emphasis on one or more of toxicology, pharmacology, molecular biology, cell biology, protein isolation/sequencing, radioligand binding studies, and radioligand binding probes to investigate mechanisms of mammalian toxicity. Each appointment is made at a level commensurate with academic qualifications and experience. Send curriculum vitae, publication list, and names of three professional references to: Dr. John E. Casida, Department of Environmental Science, Policy and Management, 114 Willamette Hall, University of California, Berkeley, CA 94720-3112. Telephone: 510-642-5424; Fax: 510-642-6497. The University of California is an Equal Opportunity/Affirmative Action Employer.

The Retinal and Macular Dysfunction Center in the Department of Ophthalmology at the University of Michigan is actively seeking a molecular biologist with a demonstrated focus on photoreceptor cells to join a group currently applying genetic, molecular, histologic and physiologic approaches to the study of human and animal retinal degeneration with emphasis on identifying factors that are neuroprotective for photoreceptor cells. Candidate's interests should include mechanisms that may contribute to cell death. Candidates must have a Ph.D. in Molecular Biology, and excellent written and oral communication ability. This position is non-tenure-track at the level of RESEARCH INVESTIGATOR, Assistant or Associate Research Scientist. The candidate is expected to: attend departmental or lab meetings, maintain a research laboratory, supervise research staff, and write grants. A Ph.D. in Molecular Biology is required. Send letter(s) of reference and cv to: Dr. John M. Black, Department of Ophthalmology, Kellogg Eye Center, 1000 Wall Street, Ann Arbor, MI 48105. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

PUBLIC HEALTH SCIENTIST: The Natural Resources Defense Council, a national non-profit public interest organization, seeks a scientist to work in various forums for the prevention of adverse health and ecological effects of toxic chemical pollution. A Ph.D./M.D. or Master's plus relevant experience is required. Candidates should be familiar with toxicology and epidemiology as well as pesticide exposure assessment technologies. The successful candidate must be able to: keep abreast of scientific advances and work with the public health and academic communities as well as with government agencies. Send resume, with $50,000, commensurate with experience. Send Send resume to: Public Health Program, NRDC, 1350 New York Avenue, NW, Suite 300, Washington, DC 20005. Equal Opportunity Employer.

The Pacific Northwest Research Foundation (PNRF), Seattle, Washington, is conducting a search for the CHIEF EXECUTIVE and CHIEF SCIENTIFIC OFFICER of the PNRF. PNRF, an independent non-profit research and educational institution, was founded in 1958 by Dr. H. T. McKelvey. The laboratory is the largest and best recognized scientific institution with at least 10 years of experience in research and research administration; an M.D. is preferred. The individual must be excellent at written and interpersonal communication. Salary is commensurate with experience. Send letter of interest, with curriculum vitae and names of three references to: Dr. Robert Wolfe, PNRF, 1300 18th Ave., Suite 400, Seattle, WA 98101. Equal Opportunity Employer.

ASSISTANT RESEARCH SCIENTIST: The Department of Cell and Tumor Biology of the City of Hope National Medical Center is seeking a Ph.D. with an interest in molecular aspects of carcinogenesis for a tenure-track position at the level of ASSISTANT RESEARCH SCIENTIST. The successful candidate will be expected to develop an independent research program with preference given to candidates using approaches based on the enzymology and molecular genetics of DNA repair, gene rearrangement, or the maintenance of chromosomal integrity. The candidate will also be expected to actively participate in the Molecular Carcinogenesis Program within the Cancer Center at the City of Hope. As an NCI Designated Clinical Cancer Center, the City of Hope has excellent facilities for DNA, peptide and RNA synthesis, protein and DNA sequencing, mass spectrometry, and molecular modeling. The Center also offers the opportunity for interaction with medical and surgical oncologists including the opportunity to participate in a research training program for Surgical Oncology Fellows and provides access to an extensive solid tumor bank and cancer registry. Send curriculum vitae and a brief summary of research objectives to: City of Hope National Medical Center, Human Resources, 1500 East Duarte Road, Duarte, CA 91010-3000. FAX: 818-301-8488; Email: jyasminc@smtp1x.cooh, Equal Opportunity Employer.

MOLECULAR AND CELL BIOLOGISTS INTERESTED IN TOXICITY

Openings are available in the Environmental Chemistry and Toxicology Laboratory at the University of California at Berkeley for POSTDOCTORAL RESEARCH SCIENTISTS and SPECIALIST positions in the non-tenure track to investigate the mechanism of action of pesticides, xenobiotics and related biologically active compounds. The laboratory staff includes 16 Ph.D. and 10 master's degree scientists. The laboratory is currently soliciting applications in a relatively wide range of areas from which specific qualified candidates will be selected. Applicants must hold a Ph.D. or equivalent degree with emphasis on one or more of toxicology, pharmacology, molecular biology, cell biology, protein isolation/sequencing, radioligand binding studies, and radioligand binding probes to investigate mechanisms of mammalian toxicity. Each appointment is made at a level commensurate with academic qualifications and experience. Send curriculum vitae, publication list, and names of three professional references to: Dr. John E. Casida, Department of Environmental Science, Policy and Management, 114 Willamette Hall, University of California, Berkeley, CA 94720-3112. Telephone: 510-642-5424; Fax: 510-642-6497. The University of California is an Equal Opportunity/Affirmative Action Employer.

To place a Classified Recruitment Ad, Call: Debbie Cummings at (202) 326-6541
Internet:science_classifieds@aaas.org
To place a Product or Marketplace Ad, Call: Carol Maddox at (202) 326-6543
Science Advertising—FAX: (202) 682-0816

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COURSES

TRACER METHODOLOGY COURSE. Principles and Practical Use of Stable Isotopes 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 practical aspects of tracer tracers also covered. October 29 to November 3, 1995, in Galveston, Texas. To receive information, Telephone: 409-776-6605 or FAX: 409-776-6704.
Postdoctoral Opportunities In The Biomedical Sciences.

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

Biochemistry of HIV-1 Molecules
Dimiter S. Dimitrov, PhD
The mechanisms of interactions of the HIV-1 envelope glycoprotein with CD4 and accessory membrane associated molecules leading to virus binding and fusion as well as the role of the viral DNA structure in integration is being studied. The research involves immunohistochemistry, isolation and characterization of plasma membrane proteins and lipids as well as PCR analysis and fluorescence video microscopy. No prior experience with HIV-1 is required. Applicants must have less than five years of postdoctoral experience. Laboratory of Mathematical Biology (OE-90), NCI, Building 10, Room 4A11, 10 CENTER DR MSC 1350, BETHESDA MD 20892-1350.

Gene Therapy
Maurizio C. Capogrossi, MD
The effect of gene therapy in angiogenesis using animal models of heart and limb ischemia is being studied. Candidates should have training in small animals (rats and rabbits) vascular surgery and have less than five years of relevant postdoctoral experience. Laboratory of Cardiovascular Science (OE-90), NIA, 4940 Eastern Avenue, Baltimore, MD 21224.

Molecular and Cellular Neurobiology
Evelyn Raiston, PhD
Subcellular organization of muscle and nerve cells is studied at both mRNA and protein levels. Current projects include mRNA localization in cultured neurons, as well as studies of the Golgi complex and trafficking of membrane proteins in muscle. Applicants should have strong background in cell and molecular biology and have less than five years of postdoctoral experience. Laboratory of Neurobiology (OE-90), NINDS, Building 36, Room 2A21, 36 CONVENT DR MSC 4062, BETHESDA MD 20892-4062.

Molecular Endocrinology
S. Stoney Simons, Jr., PhD
The mechanism of action of steroid hormone receptors, especially for glucocorticoid steroids, is being studied. Emphasis is on the modulation of steroid regulated gene transcription by cis-acting elements, receptor-associated factors, actions of antisteroids, and DNA-receptor and steroid-receptor interactions. A background in the control of gene transcription, protein-protein interactions, or intracellular receptor is preferred. Laboratory of Molecular and Cellular Biology (OE-90), NIDDK, Building 8, Room B241, 8 CENTER DR MSC 0805, BETHESDA MD 20892-0805.

Pineal Melatonin Rhythms
Martin Zatz, MD, PhD
The mechanisms of regulation and expression of circadian rhythms in melatonin synthesis displayed by chick pineal cells in primary culture are being studied. Pharmacologic, biochemical, and molecular approaches are used. Applicants should have a strong background in one of these approaches and interest in transduction and second messengers, enzyme and protein biochemistry, and/or gene expression and molecular biology. Laboratory of Cell Biology (OE-90), NIMH, Building 36, Room 2A17, 36 CONVENT DR MSC 4068, BETHESDA, MD 20892-4068. E-mail: zatz@codon.nih.gov.

Repressor Genes
George Mavrothalassitis, PhD
The molecular and biochemical function of egf repressor genes and their hybrid as tumor suppressors is being studied. Research areas include signal transduction, regulation of growth and differentiation and regulation of transcription. Applicants should have a background in molecular or cellular biology and/or biochemistry and must be a US citizen or permanent resident with less than five years of postdoctoral experience. Laboratory of Molecular Oncology (OE-90), NCI-FCRDC, Building 469, Room 206, Frederick, MD 21702-1201.

Vaccine Development
Dennis Kliman, MD
Research focuses on understanding the mechanisms by which 'naked' DNA plasmids induce antigen-specific immune responses and; monitoring the activity of HIV vaccines and immunotherapeutic agents. Studies are designed to monitor the interaction between various types of immunologically active cells and the factors they secrete. Applicant should have less than five years of postdoctoral experience. Medical training would be beneficial. Laboratory of Retroviral Research (OE-90), FDA/CBER (HFM-454), Building 29A, Room 3D10, 1401 Rockville Pike, Rockville, MD 20852-1448.

Additional Opportunities
The NIHEDNET Bulletin Board POSTDOC (fellowship positions) and TENURE (tenure track positions) conferences are accessed via a modem (301-402-2221 or 800-358-2221 with parameters set at 7, Even, 1) or the Internet using Telnet (wylbur.cu.nih) or the World Wide Web (URL: telnet: wylbur.cu.nih). When connected to NIH, key in . at 100 for terminal emulation, for initials, and for account number. To view tenure track positions, postdocs, and the POSTDOC conference and the TENURE conference.

An electronic version of the Postdoctoral Research Fellowship Opportunities catalog is accessed via the Internet using either the Gopher Information System (gopher.nih.gov) or the World Wide Web (URL: http://www.nih.gov). When connected with Gopher, select Grants and Research Information and then NIH Office of Education. When connected with WWW, select Grants and Contracts and then NIH Office of Education. If you have further questions, please contact the NIH Office of Education, Building 10, Room 1C129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, Phone 301-496-2427, Fax 301-492-0483.

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

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

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

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

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

Applications and nominations should be sent to:
Provost/Senior Vice President Sol Gittleman
Tufts University
200 Westboro Road
N. Grafton, MA 01536

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

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

Chair
Department of Rehabilitation Medicine
Emory University School of Medicine

Emory University School of Medicine invites nominations and applications for the position of Chair of the Department of Rehabilitation Medicine. Responsibilities include the direction, management and continued development of a department committed to excellence in teaching, research and patient care in a variety of clinical settings. Candidates must hold the M.D. degree from an accredited institution and be Board Certified in Physical Medicine and Rehabilitation and must be eligible for medical licensure in Georgia. In addition, the candidate must be able to lead a department in the current health care delivery environment. Also required are demonstrated leadership capabilities, previous academic and administrative responsibilities, a demonstrated record in research, and excellent clinical skills. Salary is negotiable.

Applications and nominations should include a current curriculum vitae and names and addresses of three references. They should be submitted to the Rehabilitation Medicine Chair Search Committee, Emory University School of Medicine, 404 Woodruff Health Sciences Center Administration Building, 1440 Clifton Road, N.E., Atlanta, Georgia 30322. The Search Committee will review applications until the position is filled.

EMORY UNIVERSITY IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER

PLANT SYSTEMATIST--The College of Agricultural and Environmental Sciences, University of California, Davis, invites applications and nominations for a 9-month tenure-track Assistant Professor/Assistant Plant systematist position in either the Department of Pomology or the Department of Vegetable Crops. This position has the probability of extension to 11-month employment. The full-time position will include an appointment in the California Agricultural Experiment Station (70%) and teaching responsibilities commensurate with the proportion of the position allocated to Instruction and Research (30%). Candidates must have a Ph.D. degree (or equivalent) in Botany, Plant Biology or a related field with training and emphasis on systematic, taxonomy and evolution. Applications should send (1) a curriculum vitae, (2) transcripts if less than 5 years since graduation, (3) copies of published and in press articles, (4) a description of current and projected research interests relative to this position, (5) a summary of teaching interests and experience, and the names and addresses of at least three references from whom letters of reference may be requested to: Prof. F.A. Bliss, Chair, Systematist Search Committee, Department of Pomology, Wickersham Hall, University of California, Davis, CA 95616. Closing date: Open until filled, but all application materials must be received by September 30, 1995 to be assured full consideration. The University of California is interested in candidates who reflect the highest standards of scholarship and professional activities and does not discriminate on the basis of race, color, national origin, religion, sex, disability, age or sexual orientation. The University of California is an Equal Opportunity/Affirmative Action Employer.
Drug Metabolism

At Amgen, you’ll discover a research environment that emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. This unique approach has helped us grow into a global biotechnology leader in just fifteen years.

We seek the following drug metabolism scientists to join our new small molecule anti-inflammatory drug discovery team at our BOULDER, CO facility.

RESEARCH SCIENTIST

Qualified candidates will possess a Ph.D. in Pharmacology, Pharmacy, Chemistry, or related field and at least 3 years’ industry experience in the design and conduct of in vitro/in vivo metabolism studies on small molecule new drug entities. Excellent communication skills and the ability to work in a multi-disciplinary team environment are essential. The preferred candidate will have strong leadership skills and the ability to apply innovative techniques in drug metabolism to drug discovery. (Job Code: OXP-SC-2617)

RESEARCH ASSOCIATE

Qualified candidates will have a BS/MS in Pharmacy, Biology, Chemistry, or related field and a minimum of 2 years’ experience in drug metabolism using bioanalytical techniques. Excellent communication and teamwork skills are essential. Previous pharmaceutical industry experience is preferred. (Job Code: OXP-SC-2616)

We recognize that diverse perspectives are a key factor in the process of discovery.

We offer a highly competitive compensation and benefits package. Please mail your resume/c.v. to: Amgen Boulder, Human Resources Dept., Job Code: (see above), 3200 Walnut Avenue, Boulder, CO 80301. Principals only, please. Please consult our on-line Job Bulletin Board at http://www.bio.com for information on other career opportunities available at Amgen.

AMGEN.

EEO/AA Employer M/F/D/V
The Division of Extramural Research, the organizational unit of the National Institute of Dental Research (NIDR) responsible for promoting and managing all dental research grants and cooperative agreements, training and career development awards, and research contracts for the NIDR, invites nominations and applications for a Health Scientist Administrator position in the scientific program area of Craniofacial Development and Disorders.

Applicants should have a Ph.D. degree (or equivalent doctoral degree), in a science related to health, dentistry and/or medicine; accomplishments in molecular biology, developmental biology, bone or mineralized tissue biology and/or development, or craniofacial development and disorders as well as demonstrated ability in health science administration. Activities include planning and implementing research initiatives through grants, contracts and/or cooperative agreements and to provide administrative and scientific oversight of proposals and awards. The position is available immediately.

Appointment in the Federal Civil Service at a GS-12; GS-13 or in the Commissioned Corps of the U.S. Public Health Service may be appropriate. U.S. citizenship is required. Grade level and salary is commensurate with qualifications and experience.

Applicants may submit a curriculum vitae and bibliography, resume, Optional Application for Federal Employment, OF-612 (available in any Federal Personnel Office) or any other written format you choose.

Full qualification requirements and further information including knowledge, skills and abilities (KSAs) for this position can be obtained from:

Ms. Faye Harbrant
Personnel Management Specialist
National Institute of Dental Research
National Institutes of Health
31 Center Drive, MSC 2290
Building 31, Room 2C23
Bethesda, Maryland 20892
(301) 496-6971

Application materials must be postmarked and sent by the closing date of August 15, 1995.

NIH is an Equal Opportunity Employer

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Northwestern University Medical School seeks a full-time, non-tenure eligible faculty member to join a laboratory actively investigating wound healing. The appointment will be at the rank of Assistant Professor in the Department of Surgery with a joint appointment in the Department of Cell, Molecular and Structural Biology, and the desired start date is the fall of 1995. Applicants should have research interests in the basic cellular and molecular mechanisms of wound formation and wound repair. The laboratory is particularly interested in the signal transduction pathways which may be altered in aged and/or hypoxic cells. Applicants must hold a Ph.D.s and have research experience in a related area. The successful applicant would be expected to integrate work with the wound healing group and subsequently develop an independent research program. Funding will be available for a period of three years. Hiring is contingent upon eligibility to work in the United States.

Candidates should submit a curriculum vitae a brief statement of research interests and future plans, copies of three recent publications, and three professional references to:

Thomas A. Mustoe, M.D.
Professor of Surgery
Division of Plastic and Reconstructive Surgery
707 N. Fairbanks Court, Suite 811
Chicago, IL 60611

Northwestern University is an Affirmative Action / Equal Opportunity employer.

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Every year, SCIENCE has devoted an issue to women in science. On 11 August 1995, we will take an in-depth look at women's health care research. In this important cover story, SCIENCE goes beyond the popular myths and the rhetoric to examine the important questions surrounding this topic.

This is an excellent opportunity to showcase your company as an ideal work environment for women and to confirm your company's commitment to women's health care research by placing a full page recruitment advertisement in this issue.

Full page advertisements will receive extra visibility by being listed on an index attached to the covers of the issues distributed to the Association for Women in Science. In addition, full page recruitment ads will be highlighted by an advertisement listing all of the full page advertisers and saluting industry efforts to promote women in science and women's health care issues.

Don't miss this outstanding opportunity to feature your company's recruitment message in this once-a-year special issue!


For advertising information, please call Janis Crowley at (212) 496-7704 or fax to (202) 682-0816.
ZymoGenetics, a Seattle-based biotechnology company, is currently seeking a Scientist for its Biopharmaceutical Division.

The successful candidate will identify existing assay systems, as well as develop novel assays to support the cloning, expression and purification of novel protein therapeutics. Flexibility to work on diverse protein projects is required.

Qualified candidate will have a strong background in basic cell biology with specific expertise in the development/implementation of assays for the identification and characterization of both naturally-derived and recombinant proteins. Background should also include some of all of the following: tissue culture, proliferation assays, enzymatic assays, immunoassays, immunohistochemistry, bone marrow colony forming assays, organ culture systems, and whole animal models. Must have a Ph. D. or M.D. degree, 2+ years post-doctoral research experience plus strong verbal/written communication skills.

As a subsidiary of Novo Nordisk A/S, the world’s largest manufacturer of insulin, ZymoGenetics offers an exciting environment characteristic of a small research and development company, along with the scope and stability of a large pharmaceutical corporation. We also offer intellectual challenge, state-of-the-art facilities and a generous benefits package. Please apply by sending your CV, noting reference #14N95, to: ZymoGenetics, Inc., Human Resources, 1201 Eastlake Avenue East, Seattle, WA 98102. ZymoGenetics is committed to Equal Opportunity and Diversity.

ZymoGenetics

Research Veterinary Pathologist Worldwide Drug Safety Research

The Upjohn Company, a recognized leader in worldwide pharmaceutical research, is seeking a Veterinary Pathologist to design, conduct and report GLP drug safety studies. These studies characterize the toxicity of new drug candidates and formulations in support of clinical trials to meet worldwide marketing requirements. You will collaborate with corporate scientists and external consultants to provide an integrated safety evaluation of new drugs, as well as participate in safety assessment decisions and project teams.

A DVM degree (or equivalent), a Ph.D. in pathology or related field, ACVP board certification and at least four years of directly related experience in pharmaceutical pathology, toxicology and safety evaluation are required. Candidates must have demonstrated originality in problem solving in relation to safety evaluation and must possess the skills and abilities to deal effectively with scientists, management, and governmental agencies.

Upjohn offers a stimulating, multi-disciplinary research environment at our headquarters in Kalamazoo (a southwestern Michigan community located midway between Chicago and Detroit). We provide an excellent salary and benefits package. For confidential consideration please submit your resume to: The Upjohn Company, Ad #293, 7000 Portage Road, Kalamazoo, MI 49001.

We are an Equal Opportunity Employer with a commitment to workplace diversity.

Upjohn

High-Throughput Biological Evaluation

Aimed at Novel Drug Discovery

PHYTERA, INC. is an exciting, young company applying novel, world-class capabilities in plant cell culture to the discovery of innovative plant-derived compounds to treat major human diseases. If you are a talented research associate we would like you to join our highly-motivated staff of professionals at our new facility in Worcester, MA.

In this position, you will be involved with all aspects of high-throughput biological evaluation of plant cell culture extracts to help identify novel drugs and drug leads. Your responsibilities will include assay development, assay configuration to high-throughput formats, application of robotics and optimization of a sophisticated database system.

You will have a B.S. or M.S. in Biochemistry or Biology and 2-4 years of high-throughput biological evaluation experience in a drug discovery environment. Working knowledge of protein biochemistry (purification, enzyme and/or receptor assays), use of automated equipment and good computer skills are all highly desirable.

Please forward your curriculum vitae to: Human Resources, Code 8183, Phytera, Inc., 377 Plantation St., Worcester, MA 01605; or fax to (508) 792-1339. An equal opportunity employer.

Phytera

Genometrix

Bridging Microelectronics and Molecular Biology

Genometrix is a pioneering leader in the development of electronic DNA microchips and associated molecular imaging instrumentation for DNA-based research and diagnostics. Nestled in a forested, affordable master-planned community north of Houston, Genometrix is seeking highly qualified innovative candidates to fill the following positions:

VP/Manufacturing and Engineering

This position requires extensive bioanalytical instrument manufacturing experience for life science and clinical markets; demonstrated proficiency in planning, designing (DFMA), system integration, assembly, testing and certification (ISO and FDA); preferred technological expertise in optical detection and imaging with CCDs, data acquisition, and ink-jet dispensing of reagents.

Additional requirements include:
- B.S. or higher in Engineering
- 10+ years experience with proven efficiency in product time-to-market

Senior Electro-Optical Engineer

This position requires demonstrated proficiency in designing and building PC-based optical detection and imaging systems employing CCDs for UV, visible, IR and X-ray imaging.

Additional requirements include:
- M.S. or higher degree in Electrical Engineering or Physics
- 10+ years experience with proven innovative contributions

Electronic Technician

This position requires extensive experience in designing, fabricating, testing and troubleshooting PC-driven CCD imaging systems. The candidate must have demonstrated proficiency with data acquisition electronics, including A/Ds, conditioning, timing, multiplexing, and DSP.

Additional requirements include:
- 10+ years experience with demonstrated product achievements

Biochemist/Senior Biochemist

These positions required demonstrated proficiency in DNA-based research and diagnostics including sample preparation, oligonucleotide synthesis, fluorescent and chemiluminescent labeling, attachment chemistries, hybridization, probe-based clinical assays, detection systems, and various blotting protocols. Additional requirements include:
- B.S. or higher degree in Biochemistry or equivalent educational background
- 3+ years lab experience with demonstrated innovative contributions

Send letter of application and resume to:

Genometrix
3608 Research Forest Dr., Suite B7
The Woodlands, TX 77381
HARVARD MEDICAL SCHOOL
Executive Director for Research Affairs

Harvard Medical School invites nominations and applications for this newly created position with primary responsibility to:

Work with the basic science departments to develop comprehensive, proactive research initiatives for the goal of significantly increasing levels of research funding from corporate and government sources; lead the implementation of those strategies and provide executive leadership on issues of research funding, research policy and research administration.

The ideal candidate will have a Ph.D. in the life sciences with sufficient familiarity with medicine to understand the clinical relevance of basic research. She/he will have a minimum of ten years of management experience. An entrepreneurial spirit and creative approach will be essential to "market" academic research initiatives to prospective sponsors and funders. Experience in a business development role in the biotechnology or pharmaceutical field would be helpful. Familiarity with federal grant and contract policies and procedures is highly desirable, as is familiarity with philanthropic fundraising.

Nominations and expressions of interest will be held in confidence and may be sent to:

Esther Rosenberg
Co-Managing Director
Howe-Lewis International
521 Fifth Avenue
New York, New York 10175
Fax 212-697-6600

CHAIR
Department of Pathology and Laboratory Medicine
Emory University School of Medicine

Emory University School of Medicine invites nominations and applications for the position of Chair of the Department of Pathology and Laboratory Medicine. Responsibilities include the direction, management and continued development of a department committed to excellence in teaching, research and clinical service in a variety of settings. Candidates must hold an M.D. degree from an accredited institution, must be Board Certified in Pathology, and must be eligible for medical licensure in Georgia. In addition, the candidate must be able to lead a department in the current health care delivery environment. Also required are demonstrated leadership capabilities, previous academic and administrative responsibilities, a demonstrated record of excellence in research, and a knowledge and expertise in running a major clinical laboratory operation. Salary is negotiable.

Applications and nominations should include a current curriculum vitae and names and addresses of three references. They should be submitted to the Pathology and Laboratory Medicine Chair Search Committee, Emory University School of Medicine, 404 Woodruff Health Sciences Center Administration Building, 1440 Clifton Road, N.E., Atlanta, Georgia 30322. The Search Committee will review applications until the position is filled.

EMORY UNIVERSITY IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER

GLOBAL CAREER OPPORTUNITIES

LUND UNIVERSITY
CHEMICAL CENTER
Chemical Physics

EC Post-doctoral Research Fellowship

A postdoctoral position is available for 18 months in the application of ultrafast spectroscopy within the HCM project, "Solar energy conversion in green plants: Structural, functional and dynamical aspects." The work will be focussed on studying ultrafast energy and electron transfer processes within green plant pigment systems, reaction center and light-harvesting pigments. The fact that this is an HCM project implies that an applicant must comply with the eligibility criteria of the EC.

The post is placed at the newly opened ultrafast laboratory at the University of Lund, where a broad range of femtosecond and picosecond facilities and techniques exist. A successful applicant will join a group of ~10 post doc and graduate students already active in the field since several years. The position is available immediately.

Please send application, CV and names of two referees to Professor Vilhjalmur Sundström, Department of Chemical Physics, Chemical Center, Lund University, Box 124, S-22100 Lund Sweden. Tel: +46 46 222 4690. Fax: +46 46 222 4848.

REQUEST FOR PROPOSALS FROM THE INTERNATIONAL SPINAL RESEARCH TRUST

The field of spinal cord repair has developed to the stage at which we now have demonstrable regeneration of damaged nerve fibres in the adult mammalian cord. This represents a truly great advance that is the foundation of all our research and, even more importantly, the associated technologies that will help us progress are now maturing. Accordingly we feel that we have sufficient knowledge to plan a research strategy which will guarantee genuine progress. At the moment, we can only look to phase one of a strategic programme, but we are confident that this will take us forward to a second phase where we can begin to address how to take the work on to the clinic.

To reach this point it is recommended that ISRT funding is, from now on, restricted to projects that are conducted in adult mammalian spinal cord and concentrated on 3 main research foci:

- early trauma and inflammation: prevention of the generation of obstacles to future regenerative repair, including aspects of scarring
- trophic stimulation of neurite outgrowth: identification of the pattern and possible temporal cascade of the different factors required to achieve long-distance regeneration
- CNS inhibitory molecules: masking of intrinsic mechanisms that are inhibitory to axonal regrowth in the CNS

Besides these three main foci, ISRT will support a complementary programme to address the hurdles that prevent a proper evaluation of the progress made on each project.

- A programme to develop underpinning technologies. This will include the development of assessment models: both behavioural models and in vivo models that closely mimic the lesion in man.
- Education and communication. Promoting the education of young scientists in relevant technologies and encouraging communication between laboratories by means of exchanges visit and carefully focused conferences.

The Trust does not, at this time, have the resources to begin every aspect of this three-year programme. Accordingly applications are invited for projects focussing on the trophic stimulation of neurite outgrowth and the development of behavioural models. Applicants should submit a letter of intent summarising the proposed research and background of the laboratory. An approximate budget and the curriculum vitae of the Principal Investigator(s) should be included. Awards will average up to £250,000 over three years and, following a preliminary review, detailed proposals will be requested from a limited number of applicants. Deadline for letters of intent is 14th August 1995. Successful applicants will be approached by ISRT for detailed plans.

Address letters of intent to: The International Spinal Research Trust, Unit 7 Bramley Business Centre, Station Road, Bramley, Guildford, Surrey GU6 8AZ, UK

GLOBAL CAREER OPPORTUNITIES

Carlsberg Laboratory
Head of Department of Physiology

MOLECULAR BIOLOGY AND BIOTECHNOLOGY

The Trustees of the Carlsberg Laboratory, invite applications for the position as Professor and Head, Department of Physiology as of October 1st, 1996. The department offers opportunities for original research in the genetic, cell biological, physiological and biochemical sciences. By tradition it trains masters and Ph.D. students and provides opportunities for independent postdoctoral research. Together with the Departments of Chemistry and Yeast Genetics of the Carlsberg Laboratory and in cooperation with the Carlsberg Research Laboratory, the department participates in the development of biotechnological applications of molecular biology with emphasis on cereals.

Prior to September 1st, 1995 applicants are asked to submit a Curriculum vitae including a list of publications and a statement of their research plans to Professor Carl Johan Ballhausen, Chairman of Search Committee, Kemisk Laboratorium IV, H.C. Ørsted Institutet Universitetsparken 5, DK-2100 Copenhagen Ø.
ASSOCIATE DEAN, RESEARCH & GRADUATE STUDIES

The Aga Khan University (AKU), chartered in 1983, as the first Private University in Karachi, Pakistan, was conceived by His Highness, The Aga Khan, to be the focal point of The Aga Khan Development Network. The Faculty of Health Sciences began with undergraduate education in nursing and medicine. Postgraduate clinical education and training have been established. Graduate studies in community health sciences and basic health sciences are being developed. The Institute for Educational Development began a Master’s programme in Teacher Education in January 1994. The University is committed to support applied and fundamental research initially in infectious disease, community health and education with further plans for major development. The University is in search of an outstanding candidate to fill the above position.

The Associate Dean will be required to establish and coordinate facilities for research including financial support fostering development of graduate studies, evolution of critical thinking, research creativity and administration of facilities. Candidates for the position should have significant experience of research and a broad institutional perspective. Candidates must have a Ph.D. with post-doctoral training or an MD with the appropriate clinical specialty, record of successful grant acquisition and must be at least in an Associate Professor or equivalent rank.

Salary and benefits will be offered commensurate with qualifications and experience. Candidates intending to pursue a career in Pakistan will be preferred. If you are seeking professional growth and an interesting work environment, please send your detailed résumé, bibliography and names of at least three referees familiar with your recent work to the Acting Rector and Dean, Faculty of Health Sciences, The Aga Khan University, P.O.Box 3500, Stadium Road, Karachi-74800, Pakistan.
We Have a Long History of Making History in Custom DNA

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New Genome-Wide MAPPAIRSTM Screening Sets

Research Genetics is pleased to announce the availability of the newly released linkage screening sets from the Cooperative Human Linkage Center (CHLC). These sets, also known as the version 6 & 6a sets, are available unlabeled, or with a variety of different labels attached. The larger of the two sets (version 6) contains 391 markers with an average heterozygosity of 76%. The average spacing for this set is 10.0 cM and it contains 86% tri- and tetranucleotide markers. The subset (version 6a) contains 169 markers with an average heterozygosity of 78%. The average spacing for this set is 24.4 cM and it contains 90% tri- and tetranucleotide markers.

All of the markers are available for $20 per unlabeled pair or $60 per dye-labeled pair. An M13 label and an infrared-dye label are also available. The version 6 set can be multiplexed with an average of 6-9 markers per lane, and all of the version 6a markers are available labeled with FAM, HEX or TET. Please contact the MAPPAIRSTM department at Research Genetics for additional information on these new sets.

*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.