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**POSITIONS OPEN**

**ASSISTANT PROFESSORS—BIOCHEMISTRY.** The Department of Biochemistry at the Albert Einstein College of Medicine offers tenure-track positions. Appointment of a senior position is possible for qualified candidates. Resources to initiate research programs are generous. Research strengths of the Department include enzymeology and logic, protein sequence, including crystallography, protein-DNA interactions, regulation of gene expression, membrane signaling and metabolic regulation. Research initiatives in these areas are preferred but research excellence in related areas of biochemistry will also be considered. Send curriculum vitae and the names of three or more references to: Ms. Joan Savastano, Administrator, Department of Biochemistry, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1800 Morris Park Avenue, Bronx, NY 10461. Applications should be received before December 1, 1993. An Equal Opportunity Employer.

**RISK ASSESSMENT.** Interdisciplinary environmental studies program offering M.A. degree seeks a tenured assistant professor. Submit CV and three letters of recommendation to: Environmental Studies Search Committee, 322 Public Affairs Building, University of Iowa, Iowa City, Iowa 52242. An equal opportunity employer.

**ASSISTANT PROFESSOR, ANIMAL BEHAVIOR—University of Nebraska.** The Nebraska Behavioral Biology Group invites applications for an assistant professor position with emphasis on the mechanism of behavior. The individual will conduct research at the interface between mechanistic and evolutionary accounts of behavior. Specific research area is open, but applicants who focus their research upon the genetics or phylegony of behavior or whose research uses comparative approaches to the study of behavioral mechanisms are particularly encouraged to apply. The successful candidate will have experimental affiliation with, and teach undergraduate and graduate courses in biological sciences and/or psychology and will be part of the Nebraska Behavioral Biology Group. Send letter of application, curriculum vitae, and names of three references to: Dr. David Winston, Department of Psychology, University of Nebraska, Lincoln, NE 68588-0118. Applications are due November 1, 1993, and will be considered until position is filled. An equal opportunity/affirmative action employer.

**VERTEBRATE ZOOLOGIST.** Tenure-track position, assistant professor, beginning August 1994. Albion College is searching for a broadly trained vertebrate zoologist. In addition to courses in the area of specialty, the successful candidate will be expected to teach a course in the natural history aspects of vertebrates, comparative vertebrate anatomy, and to share responsibilities in introductory biology courses. Modern facilities include controlled temperature chambers, a teaching collection of skins and specimens, a special collection of Indian birds, and a 130-acre nature center adjacent to campus. A research program involving undergraduate students is expected. A Ph.D. is required and teaching experience preferred. Research in the area of avian immunology is essential. The University of Texas Health Science Center is an Equal Employment Opportunity/Affirmative Action Employer.

**ANIMAL PHYSIOLOGIST.** Full-time, tenure-track assistant professor begins August 1994. Teach upper-division comparative/molecular biology course in conjunction with a general animal physiology course with lab and participate in freshman-level biology courses. May participate in interdisciplinary “Science in Context” course. Faculty are expected to develop research programs that actively involve the undergraduate research process. Research utilizing marine organisms preferred; research interests at the system or cellular level will be considered. Ph.D. in the biological sciences with a concentration in either a liberal arts and science education and cultural diversity required. Submit letter of interest, curriculum vitae, and three reference letters by 15 October, 1993. Submit application to: Animal Physiology Search, University of Puget Sound, P.O. Box 7297, Tacoma, WA 98407. An Equal Opportunity/Affirmative Action Employer/Employer.

**POSSESSIONS OPEN**

**ASSISTANT PROFESSOR OF GENETICS.** The Department of Botany and Plant Sciences, University of California, Riverside, announces a position available July 1, 1994. The position is an 11-month, tenure-track appointment in the College of Natural and Agricultural Sciences and in the Agricultural Experiment Station. The successful candidate will be expected to develop an active, innovative, and research program in basic quantitative genetics with applications to crop improvement. Opportunities are available for interaction with research in such areas as plant physiology, statistics, population or molecular genetics, plant pathology, and entomology. The successful candidate will be expected to offer an advanced course in Quantitative Genetics and contribute to the departmental undergraduate teaching program. He/ she must be willing to serve as major professor to graduate students. A Ph.D. in Genetics or a related field is required. The position requires a strong background in quantitative genetics and statistics with experience in plant systems. Send letter of application, curriculum vitae, statement of research interest, and transcripts, and arrange to have at least three confidential letters of reference sent to: Dr. R. T. Leonard, Chairman, Department of Botany and Plant Sciences, University of California, Riverside, CA 92521-0124. (Telephone: (909) 778-4413; FAX: (909) 778-4437). The application deadline is November 1, 1993. The University of California is an Affirmative Action/Equal Opportunity Employer.

**MOLECULAR BIOLOGIST.** The Department of Biology at Davidson College plans to appoint a molecular biologist with an interest in immunology. This is a tenure-track position at the rank of ASSISTANT PROFESSOR. The successful applicant will teach in the introductory course sequence and will develop courses in his/her specialty. Start-up funds are available. The appointment is expected to start August 1, 1994. Interested persons should send curriculum vitae, a statement of teaching philosophy, selected reprints and three letters of reference to: Dr. Vernon Miller Case, Department of Biology, Davidson College, P.O. Box 1, Davidson, NC 28036 by October 15, 1993. Davidson College is an Equal Opportunity/Affirmative Action Employer.

**MATERIALS.** Applications/nominations for position of ASSISTANT/ASSOCIATE PROFESSOR, Division of Biomaterials, Department of Restorative Dentistry at the University of Texas Health Science Center at San Antonio are invited. Position requires teaching predoctoral/postdoctoral dental students and independent research. Qualifications required include a Ph.D. and a history of successful research will be strongly considered. Candidates must be able to work effectively with other departments. Experience and training in biomaterials and tissue engineering desirable but not essential. The University of Texas Health Science Center is an Equal Employment Opportunity/Affirmative Action Employer. Applicants should send letters indicating their interest along with curriculum vitae, three or more references and a statement of their areas of research interest. Address applications, inquiries and/or nominations to: John O. Burgess, D.D.S., M.S., Department of Restorative Dentistry, UTW, UTSC, School 7703 Floyd Curl Drive San Antonio, TX 78284–7890 (FAX: 210-867-6354).
ASSISTANT PROFESSOR and RESEARCH ASSOCIATE POSITIONS
The Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh, invites applications for 5 positions to participate in ongoing sponsored research. Participation in teaching and training of graduate students is expected of the 3 faculty positions. Opportunities for independent research will be available.

Three Assistant Professorships outside the tenure stream are available:
1. The individual should have expertise in Toxicology and Risk Assessment. A Ph.D. or equivalent degree in Toxicology is required. In addition, the applicant should have several years of postdoctoral training inBiostatistics or a Ph.D. in Biostatistics with several years postdoctoral training in Toxicology. Responsibilities include determination of animal models for risk assessment, risk assessment methodology, mathematical/statistical techniques for risk assessment, and physiologically based pharmacokinetics.

The individual should have expertise in Bioinformatics. This position requires a Ph.D. degree in bioinformatics or equivalent experience in bioinformatics.

Two research associate positions are also available. A Ph.D. degree or equivalent is required for each position.
1. This position requires an expert in SAR modeling of Toxicology. Experience and/or postdoctoral training in toxicology and/or chemistry for modeling of toxicological activities including familiarity with computer work is preferred. Responsibilities include applying structural concepts to the action of xenobiotics, establishing, validating and maintaining databases used in the research and creating toxicological profiles of the chemicals.

2. Expertise in Health Hazard/Exposure Assessment is required for this position. Experience and/or postdoctoral training in the field of Chemistry with specialization in toxicology is preferred. Responsibilities include the determination in modeling of the potential environmental transformations of chemicals present in the environment and workplace.

These positions are available immediately. Applicants should send a curriculum vitae, a summary of research activities and plans, together with three letters of recommendation to: Herbert S. Rosenkranz, Ph.D., Chair, Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh, RIDC Park, 260 Kappa Drive, Pittsburgh, PA 15233 or facsimile to (412) 624-1020. Please be certain to indicate the position of interest: Assistant Professor Toxicology, Assistant Professor Health Hazards, Assistant Professor Bioinformatics/Modeling, Research Associate Toxicology or Research Associate Health Hazards.

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AVID THERAPEUTICS INC. is a venture capital backed, rapidly growing biotechnology company focusing on antiviral drug discovery using novel and proprietary technology. Avid's Scientific Advisory Board includes world leaders in antiviral research. There are immediate openings for Ph.D. scientists with relevant experience in molecular virology and antiviral drug characterization and assay development.

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We are looking for a highly motivated individual with a Ph.D. in synthetic organic chemistry and 5-10 years of experience in the pharmaceutical industry. Emphasis is on individuals with superior synthetic chemical skills.

The Seattle area offers a wide range of cultural, educational and sports activities. Of course, the Pacific Northwest provides many excellent opportunities for a diversity of outdoor activities.

If you are interested in playing a significant role in drug discovery, send your resume, in confidence, to: Dr. Jack Getlowski, Managing Director of Molecumetics, 2023 120th Avenue N.E., Suite 400, Bellevue, Washington 98004-2199. An equal opportunity employer/m/f/d/v.

TWO ENDOWED CHAIRS IN PHYSICAL CHEMISTRY
University of California, San Diego
The Joseph E. Mayer Chair of Theoretical Chemistry and the Distinguished Chair of Physical Chemistry have been established at the Chemistry Department of the University of California, San Diego. Both are full, tenured professorships, salaries to be commensurate with experience and University of California salary scale. Applications, indications of interest, and recommendations of others who should be considered are most welcome. Please submit to Professor Katja Lindenberg, Chair, Department of Chemistry, University of California, San Diego, La Jolla, CA USA 92093-0332. All areas of physical chemistry, including applications of physical chemistry to other branches of chemistry and to other fields of science, including physical, biological, material, and environmental sciences, will be considered. All applications received by November 30, 1993 or thereafter until position is filled will be assured consideration. Affirmative Action/Equal Opportunity Employer.
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.

**Developmental Gene Regulation**  
*Sheryl M. Sato, PhD*  
The functional role of a family of neural-specific transcription factors, the products of Class III POU domain genes, is being investigated in vertebrate embryos using a combination of molecular and embryological approaches. The regulation of anterior-posterior patterning in the early vertebrate embryo is also under investigation. Less than five years postdoctoral training, and experience in a field such as molecular biology, biochemistry, or developmental biology, are required. Genetics and Biochemistry Branch (OE-38), NIDDK, Building 10, Room 8N315.

**Ion Channel Physiology and Modulation**  
*Jerrel L. Yakei, PhD*  
The structure-function aspects of ligand-gated (serotonin 5-HT, and glutamate) and voltage-gated calcium channels are being studied in neurons, cell lines, and transfected mammalian cells and *Xenopus* oocytes. The intracellular signal transduction pathways modulating the physiological properties of these channels are also being explored. Experience in electrophysiological techniques is required and experience in molecular biology is desirable. Applicants must have less than five years postdoctoral training. Laboratory of Cellular and Molecular Pharmacology (OE-38), NIEHS, P.O. Box 12233, MD 19-04, Research Triangle Park, NC 27709.

**Ion Homeostasis and Cell Injury**  
*Elizabeth Murphy, PhD*  
Changes in ion transport and homeostasis are involved in cell injury caused by environmental toxins or stressors such as anoxia. Fluorescent and NMR measurements of intracellular calcium, pH, sodium and magnesium changes in isolated injured cells and perfused organs are ongoing. Alterations in signal transduction pathways which are responsible for the ionic alterations are also under study. Candidates should have experience in the use of fluorescent or NMR-sensitive indicators and less than five years postdoctoral training. Laboratory of Molecular Biophysics (OE-38), NIEHS, P.O. Box 12233, MD 4A01, Research Triangle Park, NC 27709.

**Peptide Neurochemistry**  
*L.H. Lazarus, PhD*  
The structure and function of highly selective opioid peptides and their respective receptors are being studied and molecular models of these ligands and their receptors are being developed. Future studies will utilize molecular biological approaches to identify receptor domains that are important for ligand binding and biological activity. Applicants must have a strong background in the use of molecular biology techniques. Laboratory of Integrative Biology (OE-38), NIEHS, P.O. Box 12233, Building 101, Room C356, Research Triangle Park, NC 27709.

**Protein–Nucleic Acid Interactions**  
*Peggy Hsieh, PhD*  
The kinetics of DNA branch migration and the role of recombination proteins in promoting branch migration are being investigated to better understand the role of DNA structure in the process of homologous recombination. Additional projects seek to characterize other enzymes involved in recombination and DNA repair in eukaryotes. Genetics and Biochemistry Branch (OE-38), NIDDK, Building 10, Room 9D15.

**Protein Sorting and Molecular Recognition**  
*Harris Bernstein, PhD*  
The targeting of proteins to the secretory pathway is being studied using a combination of in vitro and in vivo approaches. Current projects focus on the mechanism by which the signal recognition particle identifies signal sequences, the regulation of protein targeting by a new family of GTPases, and the function of recently discovered prokaryotic homologs of components of the eukaryotic targeting machinery. Genetics and Biochemistry Branch (OE-38), NIDDK, Building 10, Room 9D15.

**Signal Transduction and Eicosanoids**  
*Thomas Eling, PhD*  
As growth factors stimulate the catalytic formation of oxygenated lipids by lipoxygenases and/or prostaglandin H synthase, the role of these lipid mediators in mitogenic signal transduction is being determined. The interaction of these oxygenated lipid products with tyrosine kinases and phosphatases is ongoing and future studies will seek to isolate, clone and sequence relevant genes which are regulated by the kinases and phosphatases. Applicants must have less than five years postdoctoral training. Laboratory of Molecular Biophysics (OE-38), NIEHS, MD B3-01, P.O. Box 12233, Research Triangle Park, NC 27709.

**Additional Postdoctoral Fellowship Opportunities**  
For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference by Internet (edu.nih.gov) or via modem, (1,301-402-2221 or 1,800-358-2221). The settings for modem access are: 7,1 E, 1. When connected to NIH, type in "vt100" at the connect message, "F5E" at initial, and "AJL" at account.

The Postdoctoral Research Fellowship Opportunities catalog may be requested from the address below. An electronic version of the catalog may be accessed via the network-based (Internet) Gopher Information System. To access the NIH Gopher server, Gopher client software (available via anonymous ftp "boombox.micro.umn.edu") must be running on your computer and configured to point to "gopher.nih.gov", port "70". Select Information for Researchers 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.
ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY (Lipids/Lipoproteins/Atherogenesis)

The Department of Pharmacology at the University of Tennessee, Memphis, invites applications for a currently available tenure-track position in the area of lipoprotein metabolism, atherogenesis, cancer, cardiovascular, endocrine and neuropharmacology. Applications from minority candidates and women are strongly encouraged. Please submit curriculum vitae, a description of research interests and future plans, and the names of three references to: Dr. Henry G. Wilcox, Chairman, Department of Pharmacology, The University of Tennessee, Memphis, College of Medicine, 874 Union Avenue, Memphis, TN 38163. The search will continue until the position has been filled. The University of Tennessee is an Equal Employment Opportunity/Titule IX/Section 504/ADA/Affirmative Action Employer.

FACULTY POSITIONS IN CELLULAR AND MOLECULAR PHYSIOLOGY

The Department of Cellular and Molecular Physiology of the Pennsylvania State University College of Medicine invites applications for tenure-track faculty positions at the ASSISTANT/ASSOCIATE PROFESSOR rank to begin during the 1993-94 academic year. The Department presently has fifteen full-time, well-funded faculty who are working in the general area of cellular and molecular physiology. We are seeking candidates with substantial research experience at the postdoctoral level or above, who are applying molecular biology and recombinant DNA techniques to one or more of the following areas: metabolic regulation, mechanisms of hormone action, signal transduction, gene regulation, and various other areas of cellular and molecular physiology. Application of molecular biology techniques to neurological or developmental problems is also encouraged. Interested applicants should send curriculum vitae, a statement of research interests, and names of two references to: Dr. Leonard S. Jefferson, Chairman, Department of Cellular and Molecular Physiology, College of Medicine, The Pennsylvania State University, 105 Main Library, University Park, PA 16802-3300. The University is an Equal Opportunity/Affirmative Action Employer and encourages minority and female applicants to apply.

THE UNIVERSITY OF MANITOBA, DIABETES RESEARCH AND TREATMENT CENTRE

The University of Manitoba invites applications for two tenured-track positions at the level of ASSISTANT or ASSOCIATE PROFESSOR. These positions are located in the University of Manitoba Diabetes Research and Treatment Centre, a new multidisciplinary research facility dedicated to advancing understanding and treatment of diabetes and its complications. This Centre is one of the focal points of the new Medical Sciences Building and has received funding from the Canadian Diabetes Association and the Canada Foundation for Innovation. Applications should be addressed to: Dr. Irwin Levison, Executive Director, Department of Medicine, University of Manitoba, 725 adventurous St., Winnipeg, R3E 3R3. Application deadline is February 1, 1994. The University of Manitoba is an Equal Opportunity Employer.
The Howard Hughes Medical Institute announces a program of biomedical research grants for the following selected countries: Belarus, Czech Republic, Estonia, Latvia, Lithuania, Hungary, Poland, Russia, Slovak Republic, and Ukraine. The total program budget will be about $3 million annually for five years, with two types of research grants awarded: (1) grants for the research of scientists at their own institutions in the selected countries, and (2) grants for the joint research of scientists in the selected countries and collaborating scientists in other countries.

Research at the Scientist's Own Institution
About 40–60 grants will be awarded for research by eligible scientists at their own institutions in the selected countries of Eastern Europe and the Former Soviet Union. The five-year grants will be in the range of $10,000–$75,000 (U.S.) annually. The research must probe basic biological processes and disease mechanisms, in such fields as cell biology and regulation, genetics, immunology, neuro-science, and structural biology. Clinical trials and research on health education, health care delivery, or health services are not eligible for support under this initiative.

To be considered eligible, scientists (1) must reside in a selected country (or, if they currently live abroad, must plan to return to assume academic or research appointments at institutions in the selected countries), (2) must have made significant contributions to fundamental biomedical research, (3) must have published at least one scientific article in a peer-reviewed international English language journal or must provide a preprint in English of a publication arising from recent collaborative research with an established laboratory abroad, and (4) must not have major administrative responsibilities.

Research Involving International Collaboration
About 40–60 grants will be awarded for collaborative research conducted jointly by an eligible scientist in one of the selected countries and a collaborating scientist in another country. The five-year grants will be in the range of $10,000–$75,000 (U.S.) annually. The research must probe basic biological processes and disease mechanisms, as noted above.

For collaborative research awards, the applicant in the eligible country must meet the eligibility criteria described above for research at the scientist's own institution. The collaborating scientist must be an established researcher at an institution that is in a country other than the selected countries of Eastern Europe and the Former Soviet Union. The application must be submitted jointly.

Applications and Awards
Awards, which will be announced in the fall of 1994, will be based on peer review of submitted applications. The deadline for application is December 1, 1993.

To request the program announcement and application, provide to the Institute your name, address, telephone number (including country code), fax number, and e-mail address:

Howard Hughes Medical Institute
Office of Grants and Special Programs
International Program
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Chevy Chase, MD 20815-6789
United States of America
Telephone: 1-301-215-8884
Fax: 1-301-215-8888
Internet: hhmgf@class.org

The Howard Hughes Medical Institute welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
Innovative research at Sandoz has been enhancing medicine around the world for over 100 years. Our products have extended and improved the quality of life for countless individuals and revolutionized basic scientific concepts within the transplantation and mental health fields.

Our Oncology department is looking for an individual to work in a biochemistry laboratory where the primary emphasis is on purification and characterization of proteins from natural and recombinant sources that are important for cellular control of oncogenesis.

To qualify the selected individual should possess a MS or equivalent in Biochemistry or Cell Biology and a minimum of two years' experience working in a biochemistry laboratory. Candidates with experience in tumor biology preferred. Hands-on experience in protein and peptide purification, electrophoresis and protein analytics are essential. Additionally, tissue culture skills would also be helpful.

Being part of the research team at Sandoz has its advantages. Our salaries and benefits programs are designed to attract top candidates and provide them with the resources to produce their best. Comprehensive health, dental, and savings plans as well as fitness and athletic facilities are all provided at our attractive location in northwest New Jersey, which also allows for outstanding academic, cultural, and outdoor pursuits. For confidential consideration respond to position #2682DJ by forwarding your curriculum vitae or resume and salary requirements to:

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NEUROSCIENCE AND AGING INSTITUTE
Loyola University
Stritch School of Medicine

The Neuroscience and Aging Institute of Loyola University Chicago is now recruiting Postdoctoral Fellows. Recent recipients of a Ph.D. and/or M.D. degree seeking further training in Neuroscience are encouraged to apply. Stipends are competitive, and appointments are for two years. Successful applicants will select a mentor from among the more than 30 members of the Neuroscience and Aging Institute. These members include faculty from the Departments of Cell Biology, Neurology and Anatomy, Molecular and Cellular Biochemistry, Neurology, Pharmacology, Physiology and Psychiatry, and also from the Parmly Hearing Institute and the Hines VA Hospital.

The major areas of research focus are:

NEURODEGENERATIVE DISEASES
Alzheimer's disease, Parkinson's disease, Substance abuse, Stroke, Epilepsy
NEURODEVELOPMENT
Alcohol, Drugs of abuse, Altered function in aging
NEUROENDOCRINOLOGY/NEUROIMMUNOLOGY
Stress, Sexual differentiation, Growth and reproduction
NEUROGENERATION/NEUROPLASTICITY
Spinal cord injury, Neural tissue transplantation, Axoplasmic transport, Neurotrophic factors, Protein expression
NEUROTOXICITY
Alcohol, β-carbolines, MPTP, AF64A
NEUROTRANSMITTERS/NEUROPEPTIDES RECEPTOR SYSTEMS
SENSORY NEUROSCIENCE
Electrophysiology and psychophysics of visual and auditory systems in humans and animal models

A listing of Neuroscience faculty and their particular research interests is available upon request. Candidates should forward a letter of interest, including future research interests and career goals, curriculum vitae, and names, addresses and phone numbers of three references to:

Neuroscience and Aging Institute Fellowships Committee
C/o Paula Griffin, Building 117, Room 29
Loyola University Medical Center
3160 South First Avenue
Maywood, Illinois 60153
(708) 216-6755

Information must be received and files complete by October 15, 1993. Loyola University Chicago employs without regard to race, color, age, sex, national or ethnic origin, or religion, and is an equal opportunity employer. Qualified persons are not subject to discrimination on the basis of handicap.

FACULTY POSITIONS
IN HUMAN MOLECULAR GENETICS AND VIROLOGY
DEPARTMENT OF MICROBIOLOGY AND MOLECULAR GENETICS
UMDNJ-NEW JERSEY MEDICAL SCHOOL

The Department of Microbiology and Molecular Genetics seeks applications for tenure-track position in human molecular genetics and virology. We are looking for outstanding highly motivated individuals who will develop independent research programs and participate in teaching graduate and medical students. While primarily looking to make these appointments at the level of Assistant Professor, distinguished applicants at senior levels will also be considered. The department has 16 full-time faculty who carry out research in various aspects of microbiology and molecular genetics, including control of cell growth; cellular aging; transcriptional, post-transcriptional and translational regulation; mutagenesis; DNA replication and recombin- nation; chromosome structure and segregation; and molecular pathogenesis. We are full equipped for molecular biological research, cell genetics and virology and are associated with the newly established Center for Human Genetics, New Jersey Medical School is part of the medical university of the state of New Jersey and is located in the University Heights section of Newark, NJ, minutes from both pleasant suburbs and downtown New York City.

Send a complete curriculum vitae including future research plans and arrange to have three letters of recommendation sent to Dr. Harvey L. Ozer, Chairman, Department of Microbiology and Molecular Genetics, UMDNJ-New Jersey Medical School, 185 South Orange Avenue, Newark, NJ 07103-2714.

UMDNJ is an Affirmative Action Equal Opportunity Employer M/F/H/V and is a member of the University Health System of New Jersey
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Your research will focus on understanding the mechanism of protein facilitated cholesterol transport in intestinal cells. Accordingly, you will develop and provide routine maintenance of a cell culture assay for the uptake of cholesterol. You will also initiate a drug discovery program to find candidates to block cholesterol absorption.

Requirements include a PhD degree and 2+ years' postdoctoral or industrial experience, primarily in mammalian cell biology; especially preferred in relationship to signal transduction and lipid metabolism. Some familiarity with molecular biology and protein purification desirable.

Learn more about all of the professional and personal advantages we offer our people. Send your CV and the names of three references along with a cover letter to Pat Donchin, CV Therapeutics, Inc., JC: CB, 1615 Plymouth St., Mountain View, CA 94043. EOE.

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Research Chemist/Chemical Process Research & Development

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Research Scientist/ Biotechnology Development

Responsible for monoclonal antibody drug conjugate formulation development, optimization and scale up for production.

Ph.D./M.S. with experience in biochemistry and immunology required. Background with proteins and their freeze-drying preferred. Respond to: Dept. #9702.

Molecular Neuroanatomy Scientist/Central Nervous System Biological Research

Responsible for molecular neuroanatomy research focused on neurodegeneration and memory using modern neuroanatomical techniques to identify targets for therapeutic drugs.

M.S. or B.S./B.A. and expertise in in situ hybridization histochemistry, in vitro radioligand binding, quantitative autoradiography or immunocytochemistry. Experience in small animal surgery, tissue sectioning, and computer assisted data analysis is also desirable. Respond to: Dept. #9697.

Neuropsychopharmacology Scientist/Central Nervous System Biological Research

Participates in research focused on in vitro and in vivo experimental studies emphasizing a multi-disciplinary approach to CNS drug discovery.

M.S. or B.A./B.S. in neuroscience, pharmacology, biology, or related discipline, and one or more years of industrial/academic experience. A background in one or more of the following areas is essential: receptor binding, second messenger system assays and methodology involving quantification of neurochemical parameters. Additionally, the individual will have excellent computer skills and be familiar with computer-assisted data analysis. Experience with cell/tissue culture techniques, small animal surgery and/or animal handling is desirable. Respond to: Dept. #9696.

Molecular and Cellular Neurobiology Scientists/Central Nervous System Biological Research

Two positions are available in the Alzheimer's Disease Program which focuses on the cellular trafficking and processing of Amyloid Precursor Protein to develop innovative strategies targeting the prevention of both β-amylloid peptide generation and its neurotoxicity.

Ph.D. (post-doctoral) with expertise in cell biology, preferably with a strong background in protein biochemistry and/or molecular biology. M.S. or B.A./B.S. degree in neuroscience, pharmacology, biology or related discipline and one or more years of industrial/academic experience. Respond to: Dept. #935.

Research Protein Chemist/ Molecular Angiogenesis

Responsible for research focused on molecular mechanisms of endothelial cell proliferation and capillary blood vessel formation. Emphasis is placed on a multidisciplinary approach to the detailed molecular investigation of proteins that are essential to angiogenesis and may be potential targets for drug development.

M.S. (+1-3 years) or B.S. (+3-5 years) in protein chemistry, molecular biology, or cell biology research. Instrumentation/computer skills are preferable. Respond to Dept. #9670.

Our state-of-the-art facilities are located in a stimulating campus environment just 30 miles from New York City. We offer a competitive salary and flexible benefits program. For consideration, please forward your resume to:

Medical Research Division, Personnel, Lederle Laboratories, 401 N. Middletown Road, Building 140, Room 224, Pearl River, NY 10963. An Equal Opportunity Employer.
We are presently searching for two tenure-track faculty members in our Department of Cell Biology. We are particularly interested in individuals who work in eukaryotic cellular or viral systems with an emphasis on signal transduction or transcription factors. More senior candidates whose program provides a unique fit with the program will also be considered. The department currently has 25 full-time members and is expected to grow. The Department of Cell Biology at the University of Cincinnati is in the process of identifying candidates who have a Ph.D. degree in the basic biomedical sciences, and who have demonstrated success in attacking fundamental problems in cell biology. Our research interests are in signal transduction and transcriptional regulation. We are particularly interested in identifying women and minority candidates. Applicants should send curriculum vitae, a brief description of anticipated research and the names of three qualified references to: Jerry B. Lingrel, Ph.D., Chair, Search Committee, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati College of Medicine, Cincinnati, OH 45267-0524. Applications will be accepted until November 15, 1993.

CELL BIOLOGY: ASSISTANT PROFESSOR

Yale University School of Medicine

The Department of Cell Biology invites applications for a position at the rank of Assistant Professor. Candidates must hold the degrees of M.D. and/or Ph.D. and have at least two years of postdoctoral experience. Candidates should have research expertise in cell or molecular biology, in molecular biology applied to study of cell function, or in cellular or molecular neurobiology. Successful candidates will be expected to develop a research program in the area of cell biology and to participate in the teaching and training of medical students, graduate students, and postdoctoral fellows. The applicant should send curriculum vitae, a statement of research achievements, research plans, and teaching interests, and three referees by November 15, 1993. The Department of Cell Biology

Yale University School of Medicine

P.O. Box 208022
New Haven, CT 06520-8022

Yale University is an Equal Opportunity/Affirmative Action Employer. Women and minority group members are encouraged to apply.

ASSISTANT PROFESSOR OF GENETICS

Harvard Medical School and Dana-Farber Cancer Institute

The Dana-Farber Cancer Institute and the Department of Genetics in the Harvard Medical School invite applications for a tenure-track position as Assistant Professor of Genetics. Candidates should have strong credentials in specialized areas of eukaryotic molecular genetics such as cell cycle, differentiation, tumor suppression or gene regulation. Major responsibilities will include supervision of an active research program and participation in the teaching and training of graduate students. Applicants should submit a research summary, curriculum vitae and three letters of reference. Applications are due by November 15, 1993. For further information contact: Dr. Philip A. Schaffer, Chairperson of the Search Committee, Dana-Farber Cancer Institute, 4506, 44 Binney Street, Boston, MA 02115. Harvard Medical School and the Dana-Farber Cancer Institute are Equal Opportunity/Affirmative Action Employers. Women and minority candidates are encouraged to apply.

RESEARCH ASSOCIATE PROFESSOR

Immediate opening for a molecular neurobiologist. Requires a Ph.D. with at least four years of postdoctoral experience in the study of ion channel gene expression and function in molecular biology laboratories. A background in cell biology or molecular genetics is desirable. Familiarity with techniques such as EMSA, RNAse protection and primer extension assays, DNAse footprinting, expression-cloning, and in situ hybridization is essential. Closing date September 30, 1993. Curriculum vitae and three letters of reference to: Robert L. Barchi, M.D., Ph.D., Chair, Search Committee, 215 Stemmler Hall/6047, University of Pennsylvania School of Medicine, Philadelphia, PA 19104-6074. Affirmative Action/Equal Opportunity Employer.

PATHOLOGY RESEARCH PROFESSOR

The Department of Pathology, SUNY Health Science Center at Syracuse, is accepting applications and nominations for ENDED RESEARCH PROFESSOR. The SUNY Health Science Center at Syracuse has an M.D. or Ph.D. degree (in one of the basic biomedical sciences), and a distinguished record of achievement in research and demonstrated excellence in education. The applicant is expected to maintain a vigorous and productive research program, facilitate the research programs of the department and contribute to the training of young investigators in biomedical research and molecular pathology. The department has diverse research interest and faculty collaborate with members of other departments. Rank listed as Associate Professor or Professor is based on qualifications and experience. Review of applications will begin immediately to fill position available January 1, 1994, and will continue until position is filled. Send curriculum vitae, supporting information, and names of references to: Frederick Davey, M.D., Chair of Endowed Research Professor Position, Department of Pathology, SUNY Health Science Center at Syracuse, 750 East Adams Street, Syracuse, NY 13210. Telephone: (315) 464-5739. SUNY HSC is an Equal Employment Opportunity/Affirmative Action/ADA Employer strongly committed to achieving excellence through cultural diversity. Nominations of women, persons of color and members of other underrepresented groups are encouraged.

ASSISTANT PROFESSORS

(Microbiology/Immunology and Biochemistry/Molecu- lar Biology)—The Microbiology/Immunology and Biochemistry/Molecular Biology Departments of The Philadelphia College of Osteopathic Medicine have four Assistant Professor-level tenure-track positions available and invite professionals with a commitment to excellence in teaching medical and graduate students to apply. Applicants must have a Ph.D., M.D., or equivalent degree, postdoctoral experience as well as demonstrated ability to obtain support for productive research. Applicants should have a record of current and future research plans and names/addresses of three references to: Walter C. Ceglovich, Ph.D., Chairman, Department of Microbiology, Philadelphia College of Osteopathic Medicine, 4001 Convention Center Drive, Philadelphia, PA 19127. Equal Opportunity Employer.

ASSISTANT PROFESSOR OF GENETICS

West Virginia University School of Medicine

The Department of Biochemistry invites applications for one or two tenure-track, 12-month positions at the Assistant, Associate or Full Professor level. Applicants at the Assistant Professor level should have a doctoral degree, significant postdoctoral research experience and a strong record of research accomplishment. Applicants at the Associate or Full Professor level must have a doctoral degree and nationally recognized and funded research program and the ability to work effectively with faculty, staff and administration. The successful candidate is expected to develop or maintain an independent research program which addresses important biological problems, to interact with other research programs in the Health Sciences Center and to participate in graduate and medical education. Candidates in all areas of Biochemistry are encouraged to apply; however, special consideration will be given to those using molecular biological or physical-biochemical approaches in their research. Excellent start-up funds and salaries are available. Applicants should send curriculum vitae, including brief description (2 to 3 pages) of research accomplishments and future research plans, and three names, addresses and telephone numbers for references to: Dr. Thomas E. Sheminke, Department of Biochemistry, WVU Health Sciences Center, P.O. Box 9142, Morgantown, WV 26506-9142. Evaluation of candidates will begin October 1, 1993, and will continue until the positions are filled. West Virginia University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

Massachusetts Institute of Technology

Department of Biology

Applications are sought for a tenure-track faculty position at the level of ASSISTANT PROFESSOR in the area of molecular, cellular or developmental biology. Applicants should have significant research accomplishments, the ability to establish and maintain a vigorous, productive research program, and interest in education at both the undergraduate and graduate levels. Applicants should provide curriculum vitae, a summary of research accomplishments and proposed research, and copies of key publications or preprints. Applicants should arrange that at least three letters of recommendation be sent from scientists who can evaluate their accomplishments and future research and teaching. Applications should be sent to: Biology Search Committee Attention: Marilyn T. Smith Massachusetts Institute of Technology 77 Massachusetts Avenue Building 56-511 Cambridge, MA 02139 MIT is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are especially encouraged to apply.

ELECTROPHYSIOLOGIST IN CAR- DIOVASCULAR SCIENCES

The Department of Physiology, Faculty of Medicine, University of Manitoba, invites applications for one contingent faculty position at the level of ASSOCIATE PROFESSOR in the Division of Cardiovascular Sciences. Candidates must have M.D. or Ph.D. degree in any of the medical sciences with 2 or more years of faculty experience in electrophysiology. Candidates are expected to establish an independent, externally funded, research program in the area of cardiovascular electrophysiology and teach both medical and graduate students. The R.M.C. Group is in Experimental Cardiology to study ischemic heart disease. In addition to start-up funds, operating funds and monthly salary, the R.M.C. Group grants in March 1999. The University of Manitoba encourages applications from qualified women and men, including members of visible minorities, Aboriginal people and persons with disabilities. The University of Manitoba is committed to a statement of research goals and arrange for three letters of reference by October 10, 1993, to: Dr. N. S. Dhalla, Chair, Division of Cardiovascular Sciences, Bannister General Hospital Research Centre, 351 Tache Avenue, Winnipeg, Manitoba, Canada, R2H 2A6.

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SCIENCE • VOL. 261 • 10 SEPTEMBER 1993
Howard Hughes Medical Institute

Fellowships for Biological and Biomedical Sciences

The Howard Hughes Medical Institute announces the 1994 competitions for fellowship programs that support training in fundamental biological and biomedical research. Awards, based on international competitions, focus on research directed to understanding basic biological processes and disease mechanisms. Fellowships may be held at academic or not-for-profit research institutions.

Predoctoral Fellowships in Biological Sciences

Up to five years of support for full-time graduate study toward a Ph.D. degree in biostatistics, cell biology and regulation, epidemiology, genetics, immunology, neuroscience, or structural biology. Applicants must not have completed the first year of postbaccalaureate graduate study in biology. Application deadline: early November.

Postdoctoral Research Fellowships for Physicians

Three years of support for training in fundamental research subsequent to at least two years of postgraduate clinical training and no more than two years of postdoctoral research training. Application deadline: early January.

Research Training Fellowships for Medical Students

An opportunity for medical students in the United States to explore a burgeoning interest in fundamental research. Support is awarded for one year of full-time fundamental research in a laboratory at the student's medical school or another institution (except NIH). Application deadline: early December.

Research Scholars at the National Institutes of Health

Under this joint HHMI-NIH program, medical students in the United States spend an intensive year in research in the intramural program at the NIH in Bethesda, Maryland. Residence is provided at the Cloister on the NIH campus. Application deadline: early January.

For Program Announcements and Applications

For Predoctoral Fellowships: Howard Hughes Medical Institute
The Fellowship Office
National Research Council
2101 Constitution Avenue
Washington, D.C. 20418
United States of America
(202) 334-2872

For Other Programs:
Office of Grants and Special Programs
Department AL94
4000 Jones Bridge Road
Chevy Chase MD 20815-6789
United States of America
(301) 215-8889

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
**SENIOR PRINCIPAL SCIENTIST**

**GENERAL TOXICOLOGY**

There are a number of components to success in the pharmaceutical research process. The most important is our people. As Schering-Plough, we hire the best talent in our industry. Then, we provide them with the technical resources they need to do their best work: the most advanced instrumentation; the latest computerized systems; modern lab facilities. We spend over $500 million annually on R&D, and have just acquired a $300 million R&D facility.

Commitment of this scope has helped us achieve $4 billion in annual sales around the world. To maintain our leadership position as a pharmaceutical firm with a very rich product pipeline, we are seeking a Senior Principal Scientist to join our Safety Evaluation Center in Lafayette, N.J. Lafayette is a rural, northeastern New Jersey community, set among rolling hills and dairy farms.

Reporting to the Director, General Toxicology, you will lead drug safety programs. This will involve planning, implementing, reporting and interpreting animal toxicity studies; and integrating the results with information from other groups, such as Drug Metabolism and Pharmacokinetics. You will serve as Study Director for drug safety studies; and actively participate on multidisciplinary drug development teams for human pharmaceuticals.

Requirements for this pivotal position include a PhD in Toxicology (or related discipline), certification by the American College of Toxicology and 3+ years of relevant experience. A background interacting with governmental regulatory authorities and demonstrated project management skills for studies conducted in third-party contract laboratories would be decided assets.

Schering-Plough Research Institute offers a comprehensive compensation package that includes a salary commensurate with your experience and education, a generous benefits program and an attractive relocation policy. For confidential consideration, please send your curriculum vitae and salary requirements to: Mr. William E. Decker, Human Resources Manager-Research Department 13172, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, New Jersey 07033. We are an equal opportunity employer.

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**MOLECULAR IMMUNOLOGISTS/ CELL BIOLOGISTS**

Gwen Knapp Center for Lupus and Immunology Research The University of Chicago

The Gwen Knapp Center for Lupus and Immunology Research of the University of Chicago is seeking applicants at the Assistant and Associate Professor levels to join the newly formed Center. The Center is committed to developing a strong program in molecular immunology. We are seeking outstanding individuals who are using the approaches of molecular biology and cell physiology to examine basic immune mechanisms and/or disorders such as signal transduction, gene regulation, and antigen processing. Existing immunology programs at the University of Chicago include: lymphocyte development, B and T cell activation, antigen presentation, tumor immunology, transplantation, and autoimmunity. Candidates should have sufficient research experience to demonstrate both significant accomplishment and outstanding promise. Faculty appointments will be tenure-track in the most appropriate academic department where the candidate will be expected to exercise full membership. New state-of-the-art laboratory space will be located within the Institute for Molecular Medicine which is now being formed. This Institute will also house programs in molecular oncology, vascular biology, human genetics, and neurobiology. Letters of application including curriculum vitae, bibliography, a brief statement indicating research interest, and the names of 3 references should be sent to: Dr. Craig B. Thompson, Director, Gwen Knapp Center for Lupus and Immunology Research.

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**NIH Seeks 2 Scientists/Physicians**

The Division of Allergy, Immunology and Transplantation is seeking outstanding physicians (M.D.), scientists (Ph.D.) or persons with equivalent experience for Chief of the Immunoregulation Section and Chief of the Host Defense and Inflammation Section. Candidates should have a strong research background in the fields of basic and/or clinical immunology.

Each position offers the challenging opportunity to creatively direct an extramural scientific research program. Possibility of some time for bench and/or clinical research. We offer a competitive salary and outstanding benefits.

These are GS-14 positions with a salary range between $88,007 and $132,059 per annum for physicians and between $56,627 and $73,619 per annum for non-physicians. Physicians comparability allowance up to $20,000 may be applicable.

Please send resume or your Application for Federal Employment (SF-171) to:

Dr. Robert A. Goldstein
DAIT, NIAID
Solar Building, Room 4A18
National Institutes of Health
Bethesda, Maryland 20892
Telephone: (301) 496-1886
Fax: (301) 402-2571

U.S. Citizenship Required • NIH is an Equal Opportunity Employer
Innovative research at Sandoz has been enhancing medicine around the world for over 100 years. Pioneering drugs have extended and improved the quality of life for countless individuals and revolutionized basic scientific concepts. We are currently looking for Scientists to become a part of our research team.

**SCIENTIST**

The selected candidate will participate directly in cellular and molecular oncology research which includes studies of the mechanisms of cell growth, differentiation and transformation, the roles played by nuclear receptors, oncogenes and tumor suppressant genes. Responsibilities will also include assisting in laboratory management, including preparation of stock solutions, maintenance of tissue culture lines.

To qualify you must possess a MS/BS in biological science or equivalent with a minimum of 3-5 years of relevant experience respectively. Experience with mammalian tissue culture and molecular biology a must.

Positions at Sandoz offer personal satisfaction, professional opportunity/challenge, competitive salaries and an excellent benefits package. Our campus-like facilities are conveniently located in northern New Jersey. For prompt confidential consideration, respond to position #2677DJ and forward your resume and salary requirements in confidence to:

**SANDOZ PHARMACEUTICALS CORP**

Staffing Department
Building 122/3
East Hanover, NJ 07936

An Equal Opportunity Employer M/F/D/V

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**SCIENTIFIC OFFICERS I AND II**

**SCIENTIFIC OFFICER I** - A position for a director of a molecular biology division in a large hospital laboratory is available immediately. Institutional funds are available to provide technical support, equipment and supplies. This individual will be expected to establish his or her own research program, and also to serve as a consultant to the Department of Laboratories.

Applicant should have a Ph.D. or equivalent degree with experience in molecular biology.

**SCIENTIFIC OFFICERS II** - Positions are available for individuals possessing a Ph.D. degree in the biological sciences to serve as director or clinical laboratory sections.

Duties of these positions include monitoring proficiency testing, quality control, supervision of laboratory personnel, training of pathology residents, and financial management of their section.

Send resumes to:

Chairman, Department of Pathology and Laboratory Medicine
Cook County Hospital
1835 W. Harrison Street
Chicago, IL 60612
or fax 312/633-3364

Equal Opportunity Employer

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**RESEARCH SCIENTISTS/ENGINEERS**

**Vaccine Development**

Merck Research Laboratories is involved in multi-national collaborations to develop combination pediatric vaccines as well as new vaccines. These collaborations focus on purification, formulation and analytical characterization of protein and carbohydrate antigens from a variety of bacterial and viral sources as well as development of polysaccharide-protein conjugate and nucleic acid-based vaccines. These efforts require a staff that is diverse in experience, technically strong and highly motivated, with exceptional organizational and communication skills. The open positions are described below.

**Bio-Process Engineers** to perform vaccine product development using state-of-the-art technology, process characterization and validation, manufacture of clinical materials, technology transfer and preparation of regulatory support documents. Lab and project experience desired. One position for Ph.D. and one for B.S./M.S. in chemical engineering, biochemistry or equivalent.

**Bio-Analytical Chemists** to provide analysis of new vaccine products using state-of-the-art technology for characterization of vaccine components.

Experience with a broad range of physical, chemical, biological and/or immunological methods for analyzing biological macromolecules. Strong emphasis on methods development. One position for Ph.D. and one for B.S./M.S. in analytical chemistry, biochemistry or equivalent.

**Immunologists/Microbiologists** to develop novel in vitro and in vivo biological assays to monitor vaccine interactions and immunogenicity in appropriate animal models as well as other biochemical assays for newly developed vaccine products. Ph.D. in immunology or microbiology or equivalent with post-doctoral experience. Additional background in biochemistry desired.

The above positions will be located in West Point, PA located approximately 25 miles northwest of Philadelphia. Merck & Co., Inc. a world leader in pharmaceutical and vaccine research and America’s Most Admired Corporation for the past seven years, provides excellent salary and benefits packages as well as a stimulating, growth-oriented research environment.

Please send curriculum vitae with cover letter and the names of three references to Personnel Manager, Ad #C-14, MRL Human Resources WP 42-Z, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486. EEO/AFA/WEmployer.
IMMUNOLOGIST/ASSISTANT, ASSOCIATE OR FULL PROFESSOR, Department of Microbiology, Montana State University. Doctoral degree required, M.D. or Ph.D. preferred. Review of applications will begin December 1, 1993. Salary competitive, depending on experience. Applicants should send curriculum vitae and a statement of research interests and goals to: Dean of the College of Agriculture and Life Sciences, Montana State University, Bozeman, MT 59717. Telephone: (406) 994-2378. The University of Montana is an Affirmative Action/Equal Opportunity and Veterans Preference Employer.

POSITIONS OPEN

AN IMMUNOLOGIST/ASSISTANT, ASSOCIATE OR FULL PROFESSOR, Department of Microbiology, Montana State University. Doctoral degree required, M.D. or Ph.D. preferred. Review of applications will begin December 1, 1993. Salary competitive, depending on experience. Applicants should send curriculum vitae and a statement of research interests and goals to: Dean of the College of Agriculture and Life Sciences, Montana State University, Bozeman, MT 59717. Telephone: (406) 994-2378. The University of Montana is an Affirmative Action/Equal Opportunity and Veterans Preference Employer.

AUDITORY PHYSIOLOGIST

The Department of Otologyngy at the University of Minnesota is seeking an Auditory Physiologist. This is a tenured position at the level of ASSOCIATE PROFESSOR or PROFESSOR. Priority will be placed on applicants with demonstrated interest in neurophysiology, inauditory processing, and perception in normal and impaired auditory systems. Responsibilities include development of a productive research program focusing on the mechanisms of auditory dysfunction, maintenance of that research program through external funding, and education of residents and graduate students in the area of basic science disciplines.

Submit current curriculum vitae, statement of research interests, representative publications, and a list of potential references to: David A. Nelson, Ph.D., Search Committee Chair, Department of Otolaryngology, Room 221 Lions Research Building, 2001 Sixth Street S.E., Minneapolis, MN 55455. The last date for receipt of applications is October 1, 1993. The University of Minnesota is an Affirmative Action Educator and Employer.

CELL BIOLOGIST

The Department of Biological Sciences at the University of Notre Dame invites applications for a tenure-track faculty position at the level of ASSOCIATE PROFESSOR or PROFESSOR. The successful candidate is expected to develop and maintain an active research program in an area of modern cell biology. Teaching responsibilities will be one course per semester, in an advanced undergraduate lecture and laboratory course in cell biology. The University of Notre Dame offers competitive salary, generous seed money, and state-of-the-art research facilities. Applications should include curriculum vitae and letters from three references by October 15, 1993, to: Dr. Joseph E. O'Toole, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556. The University of Notre Dame is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT OR ASSOCIATE PROFESSOR ORGANIC CHEMISTRY

The CITY COLLEGE OF CUNY seeks applicants for a tenure-track position in ORGANIC CHEMISTRY. It is anticipated that the appointment will be made at the level of ASSOCIATE PROFESSOR or ASSOCIATE PROFESSOR. Postdoctoral experience is expected. Persons who are interested in teaching at both undergraduate and graduate levels and in building an active, funded research program are invited to apply.

Curriculum vitae, a statement of research interests, and names of at least three references should be sent to: Prof. Michael Green, Department of Chemistry, City College of New York, Convent Avenue at 138th Street New York, NY 10031. An Affirmative Action/Equal Opportunity Employer, M/F.

POSITIONS OPEN

SMALL GRAINS PATHOLOGY ASSISTANT/ASSOCIATE PROFESSOR

A 12-month, tenure-track/tenured, research/teaching faculty position. Expected to develop an independent research program in plant pathology and collaborate/cooperate with small grains breeders/scientists. Advising graduate students and teaching undergraduate/graduate courses. Success in competing for outside grant funds from commodity groups/other competitive sources expected. Ph.D. by date of appointment in a discipline relevant to plant pathology with an emphasis in cereal grains. Evidence of publication in refereed journals and experience in teaching. Strong background in resistance breeding of cereal crops; skill in statistical analysis; and postdoctoral research experience. Send curriculum vitae, college transcripts, statement of research, and career interests and goals, and have three letters of recommendation sent by December 1, 1993, to: Prof. Roger K. Jones, Search Committee Chair, Department of Plant Pathology, 495 Borlaugh Hall, University of Minnesota, St. Paul, MN 55108. Telephone: (612) 625-6290, FAX: (612) 625-9728.

The University of Minnesota is an Equal Opportunity Educator and Employer.

ASSISTANT PROFESSOR OF CHEMISTRY, RICE UNIVERSITY. Tenure-track. Imaginative and enthusiastic new faculty member to teach in the chemical sciences and to build an innovative research program in the area of chemistry. Innovative research programs in fields which complement those of the department are desired, with emphasis on traditional and modern chemical research. Candidates should send letters of recommendation, a résumé, and a description of their proposed research program to: Prof. Philip R. Brooks, Faculty Search Committee, Department of Chemistry, University of Houston, Houston, TX 77251-1892. Rice University is an Equal Opportunity/Affirmative Action Employer.

NEUROBIOLOGIST

The Department of Biological Sciences at the University of Illinois at Chicago (UIC) invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. We seek a neurobiologist interested in understanding integration in neural systems using cellular or computational approaches. Interests may include, but are not limited to, sensorimotor integration in invertebrates or vertebrates, and modulation of synaptic function relevant to behavior. Review of applications will begin September 15, 1993, and will continue until the position is filled. Send curriculum vitae, a brief statement of research plans, and three letters of reference to: Neurobiology Search Committee Chair, Department of Biological Sciences, University of Illinois at Chicago 845 West Taylor Street Chicago, Illinois 60607. UIC is an Affirmative Action/Equal Opportunity Employer.

CHAIR

Department of Biology

The University of Texas at Arlington

Applications and nominations are invited for the position of Professor and Chair of the Department of Biology beginning August 1994. The successful candidate must have a Ph.D. in a relevant field, leadership abilities and a record of accomplishment in teaching and research. The Chair is expected to provide intellectual and administrative leadership for the department. Prior research interests in the ecological, organismal and molecular aspects of biology, and will be responsible for faculty/staff recruitment and continued development and collaboration of teaching programs. The department has teaching responsibilities for 1300 undergraduate majors and 60 graduate students. The Chair is also responsible for its curriculum and collaboration with the Ph.D. in Quantitative Biology. The University of Texas–Arlington is located midway between Dallas and Ft. Worth, Texas, is the third largest public university in the University of Texas System. The University of Texas–Arlington is located midway between Dallas and Ft. Worth, Texas, is the third largest public university in the University of Texas System. Send curriculum vitae, statements of administrative philosophy and career goals, and names, addresses and telephone numbers of five references to: Chair, Search Committee, Department of Biology, Box 19498, The University of Texas at Arlington, Arlington, TX 76019–1949. Evaluation of applications will begin October 15, 1993. An Equal Employment Opportunity/Affirmative Action Employer.

ADMINISTRATIVE POSITIONS AT THE COLLEGE OF VETERINARY MEDICINE, University of Missouri-Columbia:

FACULTY SEARCH, CHAIR, DEPARTMENT OF VETERINARY BIOMEDICAL SCIENCES; CHAIR, VETERINARY MICROBIOLOGY. Candidates must have a D.V.M. or equivalent degree and/or Ph.D. and demonstrated research and teaching abilities commensurate with an appointment as Professor to merit tenure, as well as outstanding administrative traits such as leadership, organizational and communication skills. Qualified applicants are invited to submit a letter of application and current curriculum vitae, names of at least three references, and a statement of research interests (prior to December 1, 1993). Inquiries, nominations or applications should be sent to: Dr. Gerald M. Busse, Office of the Dean, College of Veterinary Medicine, University of Missouri, Columbia, MO 65211. The University of Missouri is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION UNIVERSITY OF VERMONT, NMR SPECTROSCOPIST

The Department of Biochemistry of the University of Vermont College of Medicine has available a full-time (12-month appointment) tenure-track position. We are seeking an individual with a strong demonstrated expertise in structural biology, for example, in the characterization of macromolecules. There are identified funds available for the purchase of a high field NMR spectrometer with 2-D and multinuclear capabilities. The individual selected will be expected to maintain an externally funded, independent research program, to participate in the teaching programs of the Department, and to assume appropriate administrative obligations. We anticipate that the appointee will assume a leadership role in the development of the structural biology group in the area of structural biology. Rank and salary are negotiable and commensurate with experience and accomplishments. Please send a resume, including a description of research interests, experience in grant writing, research support, and the names of three references to: Chair, Search Committee, Department of Biochemistry, Given Building, University of Vermont College of Medicine, Burlington, VT 05405–0068. The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Women and minority groups, including those with ethnic and cultural backgrounds are encouraged to apply. Applications will be accepted until the position is filled.
NOVEMBER 7-11, 1993  
Molecular Approaches to Cancer Immunotherapy  
Chairperson: Ralph A. Reisfeld, San Diego, CA  
Grove Park Inn, Asheville, NC

NOVEMBER 9-13, 1993  
Interactions of Cancer Susceptibility Genes and Environmental Carcinogens  
Joint Meeting with International Agency for Research on Cancer (IARC)  
Chairpersons: Frederick P. Li, Boston, MA, and Ruggero Montesano, Lyon, France  
IARC, Lyon, France

DECEMBER 5-9, 1993  
Cell Signalling and Cancer Treatment  
Joint Meeting with British Association for Cancer Research and European Organisation for Research and Treatment of Cancer (PAMM Group)  
Chairpersons: Garth Powis, Tucson, AZ; Paul Workman, Macclesfield, England  
El San Juan Hotel, San Juan, PR

JANUARY 17-22, 1994  
Risk Assessment in Environmental Carcinogenesis  
Co-Sponsored by the Environmental Mutagen Society  
Chairpersons: Philip C. Hanawalt, Stanford, CA; James A. Swenberg, Chapel Hill, NC  
Whistler Resort and Conference Center, Whistler, B.C., Canada

JANUARY 31-FEBRUARY 5, 1994  
Molecular Genetics of Progression and Metastasis  
Chairperson: Lance A. Liotta, Bethesda, MD  
Big Sky Resort, Big Sky, MT

FEBRUARY 19-24, 1994  
Cancer: Perturbations in Cell Cycle Control and Genomic Integrity  
Chairpersons: Thea D. Tlsty, Chapel Hill, NC; Lawrence A. Loeb, Seattle, WA  
Banff Springs Hotel, Banff, Alberta, Canada

MARCH 5-11, 1994  
Growth Factors, Development, and Cancer  
Joint Meeting with Friedrich-Miescher Institut  
Chairpersons: Harold L. Moses, Nashville, TN; Bernd Groner, Basel, Switzerland  
Congress Center, Interlaken, Switzerland

APRIL 10-13, 1994  
85th Annual Meeting

OCTOBER 16-20, 1994  
Transcriptional Control of Cell Growth and Differentiation  
Chairpersons: Eric N. Olson, Houston, TX; Bruce M. Spiegelman, Boston, MA  
Chatham Bars Inn, Chatham (Cape Cod), MA

NOVEMBER 7-11, 1994  
Modern Developments in Cancer Therapeutics  
Joint Meeting with Academia Sinica  
Chairperson: Yung-chi Cheng, New Haven, CT  
Academia Sinica, Taipei, Taiwan, R.O.C.

AACR members will receive brochures on the above special conferences as soon as they are available. Nonmembers should call or write:

American Association for Cancer Research  
Public Ledger Building  
620 Chestnut Street, Suite 816  
Philadelphia, PA 19106-3483  
215-440-9300 • 215-440-9313 (FAX)
The Laboratory of Experimental Pathology, Division of Cancer Etiology, National Cancer Institute, NIH, is accepting applications for a position of pathologist with extensive research experience in experimental and human pathology, molecular biology and carcinogenesis by crystalline silica. The candidate will be expected to conduct independent original research on the pathogenesis of silica and fibrosis-associated lung cancer, using experimental exposures to silica and other mineral particles, in animal and cellular models. The candidate will investigate the histopathogenesis and molecular basis of silicosis and silica-induced lung cancer, using experimental animal species of appropriate genetic susceptibility and related human tissues, in order to identify the localization and role of molecular markers (cytokines, growth factors and specific gene products). He/she will also investigate cellular models and mechanisms for silica uptake, toxicity and neoplastic transformation and will characterize cell lines transformed by silica and/or transplanted oncogenes or regulatory genes, as well as cell lines derived from related tumors. Experience is required in: A) Human and experimental pathology (including pulmonary pathology), immunohistochemistry, electron microscopy, immuno-, electron microscopy and energy-dispersive X-ray spectrometry. B) Reagent DNA methodology, including Northern and Southern analyses, RNA-PCR, single strand conformational polymorphism techniques, sequencing of PCR products and immunoblotting of specified proteins; and C) Small animal surgery and neoplastic techniques. The candidate is expected to provide consultation and collaboration to the Laboratory’s research program in the above-listed areas of expertise. Preference will be given to candidates with the following qualifications: 1) MD degree and academic pathology experience; substantial track record of research in human and experimental pathology, recombinant DNA technology, immunohistochemistry and electron microscopy; and expertise in the field of silicosis research. 2) Strong interest in the development of a research program for the detection of altered gene expression and molecular markers in cells and tissues, related to respiratory dust diseases. 3) A strong record of publications in the scientific literature. Salary range: $75,000 - $80,000. U.S. citizenship is required. Candidate must communicate fluently and effectively in English, both orally and in writing. Candidates should send CV, bibliography and a resume of research interests, by September 27, 1993, to: Dr. Umberto Saffiotti, Chief Laboratory of Experimental Pathology Division of Cancer Etiology National Cancer Institute Bldg. 41, Room C-105 9000 Rockville Pike Bethesda, Maryland 20892-0041 Fax: 301-402-1829 NIH is an Equal Opportunity Employer

Applications are invited for the position of Professor of Physiology. The position is available immediately and the University welcomes applications from suitably qualified candidates in any of the broad areas of physiology. The Department of Physiology is responsible for teaching physiology (including histology) to undergraduate students in the various schools within the Faculty of Health Sciences (Medicine, Dentistry, Clinical Speech and Language Studies, Physiotherapy, Occupational Therapy) and the Faculty of Science (Pharmacy, Natural Sciences). It offers an honors degree in physiology to science students and to students in medicine following an intercalated year. The successful candidate should have a strong record in research, proven skills in academic leadership and departmental administration, and the ability to attract research funding from external sources. The College expects the appointee to build a strong research group and to establish complementary interactions with the research activities of the existing personnel. Areas of current research include neurophysiology, human movement, muscle physiology, cell proliferation, energetics, thermoregulation and reproductive biology. Some of these projects involve collaborative work with colleagues in the Department of Pharmacology and Therapeutics, Biochemistry, Anatomy and Microbiology. The College’s intention is that the Department of Physiology and the Department of Pharmacology and Therapeutics will function as a unit. The new Professor of Physiology, who will be expected to act as Head of Department in accordance with College regulations, should have the energy, drive and interpersonal skills to help bring this aspiration to fruition. Salary is in the range IR£39,461 - IR£44,882.

Further particulars are available from: Michael Gleeson, Secretary to the College, West Theatre, Trinity College, Dublin 2. Tel: (01)7021123/FAX: (01)6710037 who formal applications may be sent, preferably before 29th October 1993. Trinity College is an Equal Opportunities Employer

The Biochemistry Department of Merck Research Laboratories is seeking a Biochemist to conduct basic research on mechanisms of therapeutically important enzymes and rational design of enzyme inhibitors. The research involves protein purification, enzyme kinetic studies, and molecular biology. Applicants should possess a BS or MS in Biochemistry or the equivalent. Merck Research Laboratories is located in Rahway, New Jersey, approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. Interested applicants should submit a curriculum vitae to: Christine L. Cantone, Merck & Co., P.O. Box 2000, AD #136, Rahway, New Jersey 07065. EEO/AA/VH Employer.

Applications are invited for a tenure-track faculty position at the Waksman Institute within a joint appointment in the Department of Molecular Biology and Biochemistry. The Waksman Institute has been at the center of a major initiative to transform Rutgers University and the adjoining University of Medicine and Dentistry of New Jersey into a major, world-class research center. One hundred new faculty members in the biomedical area alone have been recruited during the past eight years. The Waksman Institute has added 12 members during this period with emphasis on four areas: molecular developmental genetics, microbial genetics, plant molecular genetics, and structural biology. Candidates are sought to further expand the developmental-genetic group. The successful applicant will be expected to conduct a vigorous independent research program and to participate in instructional activities. Recently renovated laboratory space and generous start-up funds are available. Candidates should send a biographical sketch (with a list of publications and a description of research interests) and request that three letters of reference be sent to: Dr. Jaohim Messing, Director, The Waksman Institute, Rutgers, The State University of New Jersey, P.O. Box 759, Piscataway, NJ 08855-0759.
PHARMACOKINETICIST
Greenwich Pharmaceuticals is seeking a self-motivated, top performing individual who has a keen interest in the discovery, development and marketing of novel carbohydrate drugs.

The successful candidate will be responsible for the design and implementation of ADME studies from discovery through early Phase II development in support of IND submissions. A working knowledge of typical pharmacokinetics software packages, such as PCNONLIN, database programs and current knowledge of regulatory PK/PD requirements and trends are essential. Ph.D. in Pharmaceutical Science or equivalent is required. Industrial experience would be preferred.

Compensation is highly competitive and includes salary and benefits. Candidates interested in contributing to the development of therapeutically differentiated carbohydrate drugs, should mail or fax resume to: Human Resources Department, Greenwich Pharmaceuticals Incorporated, 501 Office Center Drive, Ft. Washington, PA 19034. FAX: 215-540-9696. Equal opportunity employer.

GREENWICH PHARMACEUTICALS INCORPORATED

U.S. ARMY BREAST CANCER RESEARCH OPPORTUNITY
The Congress has directed the Department of Defense to create and manage a special new medical research program for breast cancer, a disease that attacks nearly 10% of women and continues to resist efforts to improve its treatment and prevention. This $210 million appropriation represents an exciting opportunity to make new progress in the prevention, diagnosis, and treatment of breast cancer. The program is designed in consonance with the Institute of Medicine recommendations to supplement ongoing research efforts with new approaches and resources, and to recruit talented scientists into the field. The program hopes to stimulate innovative ideas, develop interdisciplinary approaches to problems of diagnosis and treatment, expand the availability of shared resources, and reward relevant scientific excellence in all disciplines.

The U.S. Army Medical Research and Development Command is soliciting proposals for investigator-initiated research projects, for infrastructure enhancement projects such as data bases and tumor registries, and for training programs. Fellowships and training programs are available at predoctoral, postdoctoral, career development, and mid-career sabbatical levels. It is important to encourage those with relevant skills and ideas, especially younger scientists and individuals not previously engaged in cancer research, to seek participation in the effort to bring breast cancer under control. Scientists of all disciplines may also nominate themselves or others to serve on peer-review panels.

A Broad Agency Announcement (BAA) describing the Defense Department’s Breast Cancer Research Program will be published o/a 15 September 1993. Those who have previously submitted a Letter of Intent to the Breast Cancer Program will automatically receive a copy of the BAA. The BAA may also be obtained from:

U.S. Army Medical Research and Development Command
ATTN: SGRD-PLF
Fort Detrick
Frederick, MD 21702-5012
or telephone (301) 619-7075/76

Postdoctoral Opportunities at Pfizer
The field of pharmaceuticals and health care is more rewarding than ever as new products create a healthier world population. As one of the leaders in this dynamic industry, Pfizer Inc, a Fortune 100 company, is committed to continuing its remarkable growth. Our primary R&D facility is located in a southeastern Connecticut shore community, giving easy access to the well known academic and cultural centers of the Northeast, and offers the attractions of a New England lifestyle.

Currently, the Central Research Division of Pfizer Inc offers two unique postdoctoral positions, each comprising a 3 year appointment that includes 18 months in our laboratories followed by 18 months in an academic laboratory.

Novel Immune G-Protein Coupled Receptors
This study, to be carried out in the Department of Molecular Genetics at Pfizer and at Yale University School of Medicine with Dr. Charles Janeway, will focus on the functional characterization of a newly identified hematopoietic G-protein coupled receptor in transgenic and knockout models. This position requires a PhD in Molecular Biology, Immunology or a related area. Publication of results is expected.

Steroid Receptor Action
This study will seek to elucidate the mechanisms of tissue specific gene activation by steroid/thyroid hormone receptors. The approach will include the identification of genes that are transcriptionally regulated by steroid hormones and steroid hormone analogs. Candidates must have a PhD in Molecular Biology, Biochemistry or related area. Publication of results is expected.

These positions include a stipend, medical and dental insurance, and relocation assistance. To be considered please forward your curriculum vitae and the names of three references, indicating position of interest, to: Mr. Kym Goddu, Employee Resources Associate, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.

Central Research
Bringing science to life
NEUROSCIENCE AND CELL BIOLOGY. Robert Wood Johnson Medical School. New TURENU- TRACK POSITIONS AT THE JUNIOR RANK are available in cell biology at the University of Medicine and Dentistry of New Jersey (UMDNJ)-Robert Wood Johnson Medical School. Investigators with interests in molecular neurobiology, cellular neurobiology and the molecular basis of neurodegenerative disease are encouraged to apply. Positions will be available beginning January of 1994. Please submit curriculum vitae, summary of current research and three letters of reference to: Ira B. Black, M.D., Professor and Chairman, Department of Neuroscience and Cell Biology, UMDNJ-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5656. UMDNJ is an Affirmative Action/Equal Employment Opportunity Employer, M/F/D/V, and a member of the University Health System of New Jersey.

FACULTY POSITIONS
THE UNIVERSITY OF TEXAS
M. D. ANDERSON CANCER CENTER

The Department of Biochemistry and Molecular Biology invites applications for several tenure-track faculty positions in the area of Eukaryotic Developmental Biology. Our department consists of a group of highly interactive faculty and researchers who work with graduate students in the broad area of molecular biology, collaborating with both basic and biotechnology-oriented companies.

OCEANOGRAPHY/MARINE BIOLOGY. The University of North Carolina at Wilmington invites applications to fill a tenure-track position in marine biology, oceanography, or a related field. The appointment is at the assistant professor level and the position includes a start-up package. Send a letter of application, a current curriculum vitae, a description of research interests, and three letters of reference to: Dr. W. H. L. Steneck, Chair, Search Committee, Department of Biology, University of North Carolina at Wilmington, 601 South College Road, Wilmington, NC 28403. Applications are encouraged from individuals with interests in any aspect of marine biology and/or oceanography and will be considered until the position is filled.

PHARMACOLOGY—UNIVERSITY OF PENNSYLVANIA. The Department of Pharmacology is recruiting 2 TO 3 TENURE-TRACK faculty who have an interest in the broad area of pharmacological chemistry. Potential areas of research include: (i) structure and function of molecular recognition of molecules, (ii) the synthesis and biological activity of analogs of naturally occurring compounds, and (iii) receptor-mediated mechanisms. Potential areas of interest include, but are not limited to, the development of new drugs for the treatment of diseases such as cancer, diabetes, and Alzheimer's disease. Applicants are encouraged to submit a letter of interest, curriculum vitae, and a statement of research interests to: Dr. W. H. L. Steneck, Chair, Search Committee, Department of Pharmacology, University of North Carolina at Wilmington, 601 South College Road, Wilmington, NC 28403. Applications are encouraged from individuals with interests in any aspect of marine biology and/or oceanography and will be considered until the position is filled.

POSTDOCTORAL POSITION available immediately to study the nucleotide sequence variation in metabolic genes from microorganisms isolated from the deep sea. Applicants should have a background in molecular evolution, with emphasis on phylogenetic analysis, PCR technology and/or DNA sequence analysis. For fullest consideration application should be received before December 15, 1993. Send curriculum vitae and three letters of reference to: Brian P. Nichols, Department of Biological Sciences, M/C 067, University of Chicago, 845 East 58th Street, Chicago, IL 60637-7060. UIC is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION: HUMAN MOLECULAR GENETICS. Analysis of the spontaneous mutational process in humans and animals. Projects may explore the implication of spontaneous mutation for disease causation or for evolution. The factor IX and p53 genes are the major models for study of human spontaneous germline and somatic mutation, respectively. The relationship between somatic mutation and both cancer and neurodegenerative disease is being explored with the aid of transgenic mouse systems. Recent review: Dr. S. Sommer, "Analysis of the underlying baseline mutation: lessons from the factor IX gene," FASEB 6:2767, 1992. Applicants should submit curriculum vitae, reprints of three articles, and three letters of reference to: Dr. R. A. Watson, Department of Biochemistry and Molecular Biology, Mayo Clinic/Foundation School of Medicine, Rochester, MN 55905. Mayo Foundation invites applications for African American and Hispanic faculty and for women in the fields of Molecular and Cellular Biology, and Molecular and Cellular Genetics.

POSTDOCTORAL POSITIONS/BACULOVIRUSES. Two positions are available for studies of (a) Baculovirus gene expression/transcriptional regulation; (b) Functional characterization of a viral membrane fusion protein. Studies involve use of transgenic animals and functional assays. Experience and background in virology, molecular/cellular biology, or protein biochemistry is essential. Send curriculum vitae, reference letters, and names of three references to: Dr. R. A. Watson, Department of Biochemistry and Molecular Biology, Mayo Clinic/Foundation School of Medicine, Rochester, MN 55905. Mayo Foundation invites applications for African American and Hispanic faculty and for women in the fields of Molecular and Cellular Biology, and Molecular and Cellular Genetics.

POSTDOCTORAL FELLOWSHIP Washington University School of Medicine Position available immediately as part of an NIH Training Grant to study human molecular genetics. Emphasis will be on complex genetic traits and technol- ogy development. Ph.D. or M.D. required. Experience in molecular, biochemical, and computational techniques desirable. Applications to: Pui-Yan Kwok, M.D., Ph.D., 660 South Euclid Avenue, Box 8123, St. Louis, MO 63110. Fax: (314) 362-6912. Washington University School of Medicine is an equal opportunity employer.

POSTDOCTORAL FELLOWSHIP Research involving the supramolecular organization of protein-ligand complex assemblies. We are using two physiological models: bone formation and blood coagulation. Bone studies are directed toward understanding the molecular conformational changes associated with the interaction of soluble bone-related proteins with collagen proteoglycans and minerals. Blood coagulation research involves the interaction of factor Xa and thrombin with membrane proteins. A broad range of talent can be accommodated extending from synthetic organic to solution physical chemistry and from molecular and cellular biology. Send curriculum vitae, selected papers and names of three references to: Kenneth G. Mann, Ph.D., Professor and Chairman, Department of Biochemistry and Biophysics, University of Vermont College of Medicine, Burlington, VT 05405-0068.
National Institutes of Health
Endocrinologist

The Growth and Development Section, Molecular and Cellular Endocrinology Branch, National Institute of Diabetes and Digestive and Kidney Diseases, seeks outstanding candidate with M.D. or Ph.D. with at least 3 years of postdoctoral research training and experience to participate in a research program on insulin-like growth factor binding proteins. Applicant should have research interest and preferably experience in applying methods of biochemistry, cell biology, and molecular biology to investigate the transcriptional regulation of the IGF-binding protein genes and the mechanisms by which they modulate IGF actions. Applicant should be familiar with the methods of molecular genetics, cell biology, protein purification and characterization (FPLC, affinity chromatography, radioligand assays), and have general computer skills (data base searching and DNA/protein analysis). Applicant should have a substantial record of publication of original work. Starting salary approximately $47,500 commensurate with qualifications and experience. Interested candidates should submit curriculum vitae, several reprints, summary of research interests and names of three references to:

Matthew M. Rechler, M.D.
National Institutes of Health
Building 10, Room 8D14
9000 Rockville Pike
Bethesda, MD 20892

NIH is an Equal Opportunity Employer

University of Virginia
Myles H. Thaler Center for AIDS and Human Retrovirus Research
The University of Virginia

FACULTY POSITION
We seek an individual with experience in the area of HIV replication or pathogenesis for a tenure-track assistant professor position in the Department of Microbiology. Individuals working with other retroviruses will also be considered. Applicants should have postdoctoral experience and should be capable of establishing a strong independent research program. Some teaching in the graduate and medical education programs of the Department is also expected. Endowment funds are available to facilitate startup and the purchase of equipment. The University of Virginia provides an outstanding environment and support facilities for basic research including active interdisciplinary research and training programs in Immunology, Cell and Molecular Biology, Infectious Disease and Cancer Research.

POSTDOCTORAL POSITIONS
Several positions are available in the areas of HTLV, HIV and EBV gene expression and regulation in the laboratories of either Dr. Marie-Louise Hammerskjöld or Dr. David Rekosh. Projects include: the role of HIV Rev and HTLV Rex in viral gene regulation, cellular factors involved in RNA transport and signal transduction by the EBV LMP protein. In addition, a project studying the role of HTLV in neurological disease is being initiated with funding from the Charles H. Ross Jr. endowment. Candidates should have a background in molecular biology or virology, but previous work with HIV, HTLV or EBV is not required.

Applicants should submit curriculum vitae, a brief statement of research interests and the names of three references to: Ms. Dawn Martin, Administration Assistant, Thaler Research Center, Box 441, The University of Virginia, Health Sciences Center, Charlottesville, VA 22908

We strongly encourage applications from women and minority groups. The University of Virginia is an Affirmative Action/Equal Opportunity Employer.

Join Us At
The Forefront Of Pharmaceutical Discovery.

Since 1888, Abbott has been at the forefront of pharmaceutical discovery. Last year alone, we committed more than $770 million to R&D to answer some of today's most important scientific questions. As we continue our work, the Neuroscience Research Area of our Pharmaceutical Products Division has the following opportunities for individuals to work on an interdisciplinary team involved in the study of neurodegeneration in Alzheimer's disease.

CELL BIOLOGIST
(PhD)
You will conduct biochemical and pharmacological assays on neuronal and astrocytic cell cultures including the implementation of cytotoxicity assays. This position requires a PhD in cell biology/neurobiology or a related discipline, with at least 2 years of postdoctoral experience. Experience in culturing primary neuronal cells and/or glial cells required. Immunohistochemistry and/or neuropathology experience a plus. **Reply to Job# CML65512.**

RESEARCH ASSOCIATES
(BS/MS)
Cell Biology - You will maintain neuronal and glial cell cultures, as well as design and conduct biochemical and pharmacological assays on these cultures. This will include implementation of cytotoxicity assays. Experience culturing primary neuronal cells and/or glial cells would be a definite advantage. **Reply to Job# CML65515.**

Molecular Pharmacology - You will design and conduct experiments involving molecular cloning procedures, biochemical analysis of proteins, and pharmacological analysis of drug actions. Experience in molecular biology techniques, and immunological and pharmacological assays would be a definite advantage. **Reply to Job# CML65515A.**

Both Research Associate positions require an MS in Neurobiology, Cell Biology, Molecular Biology, Biochemistry or Pharmacology. We will also accept a BS and 2-3+ years of related lab experience. Both positions are responsible for reporting research results through written and oral presentations.

Abbott provides an excellent salary and benefits package including profit sharing and a stock retirement plan. We are located in an attractive suburban area approximately 30 miles north of Chicago. For confidential consideration, please send a resume and salary history (indicating appropriate job#) to: Patricia Handy, Dept. 583, AP6D, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

Abbott Laboratories
Quality
Health Care
Worldwide
1888-1993

Experience The Abbott Edge.
Post-Doctoral Positions for Cardiovascular and Pulmonary Research

Our Pharmaceutical Research Center has 3 post-doctoral training positions for scientific researchers having a PhD degree in the following fields:

- Biochemistry and Pathophysiology of connective tissue in the venous wall (extracellular matrix - culture of vascular smooth muscle cells).
- Molecular and Cellular Biology - Pathophysiology of the vascular wall (endothelial dysfunction, proliferation of vascular smooth muscle cells)
- Electrophysiology of vascular smooth muscle, in particular in the field of pulmonary circulation (function of the endothelial cells, interaction endothelium/smooth muscle, patch clamp).

If you are interested in one of these positions, which are 18 month period, than please write to PUBLIVAL an add your CV and a photo.

PUBLIVAL 9093 - 27, Route des Gardes 92190 MEUDON (FRANCE)

Vice President of Research & Development

Suburban Philadelphia Based

We are a rapidly growing, private biotechnology company developing proprietary affinity separation and analysis technologies for high value diagnostic and therapeutic applications.

Immucor Corporation is located in an attractive northern suburb of Philadelphia. Our recent, significant growth has led to the creation of this new critical position which reports to the CEO. If you are the right candidate, you will lead a diverse group of highly motivated scientists and engineers in separation, detection, processing methods which support clinical cell transplantation therapy. You will also represent the Company in scientific, academic and commercial forums. As a top Executive, you will also be involved in developing global partnership strategies for scientific and commercial applications.

We require a PhD in Biochemistry, Cell/Molecular Biology or a related discipline, or an MD with an appropriate research emphasis, 7-12 years of postdoctorate experience, including involvement with cell transplantation technology and clinical products. If you bring a record of significant success in technical project management and personal leadership and would like to explore a truly unique challenge, please reply to: BHA Box 34VP, 555 Madison Avenue, New York, NY 10022.

All inquiries will be handled with the utmost confidentiality. We will provide the successful candidate with an attractive compensation package including a meaningful equity option position. We are an equal opportunity employer and promote a drug free environment.
Ideas in Action

The Applied Biosystems Division of The Perkin-Elmer Corporation has an outstanding opportunity available in our PCR Customer Support Organization, based in Norwalk, Connecticut.

TECHNICAL SPECIALIST

PCR Customer Support

In this key position we will rely on you to provide direct telephone applications support to Molecular Biologists, perform PCR-related techniques, as well as develop technical documentation, product support literature and articles for publications. In addition, you will be required to travel approximately 10% presenting technical PCR seminars and workshops to customers and sales professionals.

Your background should include a minimum of a BS degree in Molecular Biology or Biochemistry (advanced degree preferred) and 1-3 years lab experience utilizing techniques for DNA isolation, manipulation, separation, amplification, and optical detection.

In exchange for your technical expertise, we offer a highly competitive salary package, an impressive roster of benefits, and decisive advancement potential. Interested candidates are requested to forward a resume and salary requirements in confidence to: Mr. E.K. Ilutien, Senior Manager, Human Resources, The Perkin-Elmer Corporation, 761 Main Avenue, Norwalk, CT 06859-0325.

We Are An Equal Opportunity Employer M/F/D/V

PERKIN ELMER

POSTDOCTORAL SCIENTIST

SmithKline Beecham Pharmaceuticals has an immediate opening in its Department of Physical and Structural Chemistry for a postdoctoral fellow with experience in microscale protein isolation, purification, and characterization using techniques such as 2-D gels, electrophoresis, and Edman degradation.

The qualified individual will join a multi-disciplinary team of scientists employing matrix-assisted laser desorption and electrospray mass spectrometry to characterize primary sequence and posttranslational modifications at the picomole level and below of a variety of phosphorylated and glycosylated proteins of therapeutic interest.

Experience with microbore HPLC and mass spectrometry is desirable, but not required. This is an excellent opportunity for a biochemist to crosstrain in mass spectrometry which is revolutionizing the analysis of proteins.

SmithKline Beecham's postdoctoral scientists are afforded a stimulating and challenging work environment and are strongly encouraged to publish their results in leading research journals.

Our research facilities are located in suburban Philadelphia, near Valley Forge, PA. We offer a competitive compensation/benefits/relocation package. Please submit your CV to: SmithKline Beecham Pharmaceuticals, Employment Administrator, #H0213, PO Box 1539, King of Prussia, PA 19406-0539. We are an Equal Opportunity Employer. M/F/D/V.

SmithKline Beecham Pharmaceuticals

Challenging the natural limits.

Henry Ford Medical Group

Nuclear Magnetic Resonance Scientist for NMR Center in Henry Ford Health Sciences Center's Department of Neurology. Houses a 3 Tesla 90cm and a 7 Tesla 20cm bore magnet for clinical and experimental studies and two GE 1.5-Tesla clinical systems. Part of NIH-funded Stroke Center, including study of human and experimental brain ischemia. Funded to study vascular dementia, Parkinson's and demyelinating disease. Candidate should be senior NMR scientist at Associate or Full-Professor level, experienced in NMR techniques and biological applications. Will develop and participate in current and independent research, and supervise graduate students. Joint appointment in Radiology Department available. We are a major teaching affiliate of Case Western Reserve University. Send letter, curriculum vitae with references to:

K.M.A. Welch, M.D.
William T. Gossett
Chair of Neurology
Henry Ford Health Sciences Center
2799 W. Grand Blvd.
Detroit, MI 48202

An equal opportunity employer.

MICROBIOLOGY RESEARCH

Research Scientist

The Cancer & Infectious Diseases Unit, Upjohn Laboratories Discovery Research, has an opportunity available for a microbial physiologist. The successful candidate will participate in infectious diseases research programs studying the role of bacterial metabolic pathways in disease pathogenesis and evaluating new targets for chemotherapeutic intervention. The position involves interaction with a diverse team of scientists in developing mechanism-based screens for the discovery of novel chemical entities as antibiotics.

We seek an individual with a Ph.D. and a minimum of two years of postdoctoral experience having a strong background in molecular biology and bacterial pathogenesis. Preference will be given to candidates with prior experience in the molecular biology of gram-positive organisms.

Living in the Kalamazoo area, a mid-sized Southwestern Michigan community, provides immediate access to an excellent mix of cultural/recreational pursuits. Upjohn offers a competitive salary commensurate with experience and a comprehensive benefits package. For confidential consideration, please send your CV to: THE UPJOHN COMPANY, Corporate Recruiting, Position #176, 7000 Portage Road, Kalamazoo, MI 49001. EEO/AA Employer.
POSITIONS OPEN

POSTDOCTORAL POSITION
CORNELL UNIVERSITY MEDICAL COLLEGE

A postdoctoral position is available immediately to study antibiotic proteins from human phagocytic cells. Research program includes the biochemistry and mechan- istic characterization of these proteins and a production of their functional sites. Applicants should have a strong background in Molecular Biology and/or Biochemistry. Salary is competitive and commensurate with experience. Send letter of application, curriculum vitae, and name, address, and telephone number of three references to: Dr. J. Goldstein, M.D., c/o Personnel Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

RESEARCH ASSOCIATE
POSITION

Applications are invited for a thesis Research Associate position in the study of the molecular basis of drug resistance and breast cancer. Candidates should have experience in molecular biology. Qualified individuals are encouraged to apply by sending curriculum vitae and letters of recommen- dation to: L. J. Goldstein, M.D., c/o Personnel Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE
FOR RESEARCH IN LEPROSY AND TUBERCULOSIS

Support for research in leprosy and tuberculosis is being continued. Beginning POSTDOCTORAL RE- SEARCH ASSOCIATES salaries are up to $28,000 per year, plus other allowances, and RE- SEARCH GRANTS in amounts up to $20,000. Ap- plicants should have M.D., Ph.D., or equivalent degree. Applications by 1 February 1994 for awards to be activated July through December 1994. For information write: Dr. C. A. S. Burrell, 450 East 68th Street, New York, NY 10021. Telephone: 212-751-6233, or FAX: 212-688-6794.

POSTDOCTORAL RESEARCH POSITIONS


POSTDOCTORAL SCHOLAR

Position to conduct research on the regulation of the choline acetyltransferase gene using cell culture and transgenic animal models. Applicants should have a Ph.D. with experience in molecular biology, developmental biology, and experience with recombinant DNA techniques and cloning. Application forms can be obtained from: University Grants Office, P.O. Box 1255, Jerusalem, 91904, Israel. Completed application forms must be returned by December 1, 1993.

POSTDOCTORAL FELLOW IN NEUROBIOLOGY

Applications are invited for an ongoing postdoctoral position in the Neurobiology Laboratory at the University of California, Los Angeles. The successful candidate will have a Ph.D. in molecular biology, genetics, neuroscience, or a related field. Applicants should have a strong interest in Molecular and Cellular Neurobiology. The laboratory uses a wide variety of experimental methods, including molecular cloning, DNA sequencing, in vitro transcription and translation, and transgenic mice. Excellent salary and benefits. Send curriculum vitae and names of three references to: T. G. Ruddle, J. E. 109, University of California, Los Angeles, CA 90024. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/RESEARCH FELLOWSHIP

Molecular Biology Laboratory. The successful candidate will have a Ph.D. in molecular biology, genetics, neuroscience, or a related field. Applications are invited for an ongoing postdoctoral position in the Neurobiology Laboratory at the University of California, Los Angeles. The successful candidate will have a Ph.D. in molecular biology, genetics, neuroscience, or a related field. Applications should include a curriculum vitae and the names of three references. Applicants should send their curriculum vitae and names of three references to: T. G. Ruddle, J. E. 109, University of California, Los Angeles, CA 90024. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL SCHOLAR/RESEARCH ASSOCIATE

Projects focus on structure-function relationships in the virulence properties of different strains of the protozoan, Toxoplasma gondii. The candidate will work on the development of strategies for identifying and characterizing new proteins involved in the parasite's ability to cause disease. Applicants should have a Ph.D. with experience in molecular biology and/or cell biology. The position is available immediately and will continue until the successful candidate has found employment. Application forms can be obtained from: Dr. L. J. Goldstein, Department of Molecular Biology, Stanford University, 350 Campus Drive, Stanford, CA 94305. doi: 10.1093/jnci/81.4.232.

RESEARCH ASSOCIATE

Send curriculum vitae to: Dr. B. H. Phillips, Center for Biomedical Information Research, National Institutes of Health, Building 41, Room 4A13, Bethesda, MD 20892. An Equal Opportunity Employer.
POSTDOCTORAL SCIENTIST

ZENECA Pharmaceuticals Group (formerly ICI Pharmaceuticals Group), ranked among the top pharmaceutical research organizations in the world, has an exciting opportunity for a postdoctoral scientist. The position is part of a new interdisciplinary task force created to elucidate the three-dimensional molecular structure of G-protein coupled receptors.

The postdoctoral scientist will play a key role in protein chemistry as a member of an interdisciplinary team of physical chemists, biochemists, pharmacologists, and molecular biologists. Major responsibilities will be to carry out photoaffinity labeling studies of membrane-bound receptors and purify the labeled proteins for structural characterization, using immunoaffinity techniques.

Candidates should have a background in one of the following main areas, and preferably some additional experience with techniques in the others: membrane protein extraction and purification on small scale, protein fragmentation and peptide analysis, radioisotopes, and immunochemical methods.

If you are interested in joining a team of scientists from a broad range of disciplines in an industrial pharmaceutical research environment, please submit a c.v. and arrange for two letters of reference to be sent to: Melanie M. Lewis, Human Resources Department, ZENECA Pharmaceuticals Group, 1800 Concord Pike, Wilmington, DE 19897. An Equal Opportunity Employer M/F.

ZENECA Pharmaceuticals Group
ZENECA Pharmaceuticals/Stuart Pharmaceuticals
Business Units of ZENECA Inc.

Environmental Ecologist
Department of Biological Sciences
University of Notre Dame

We seek applicants for a new tenure-track assistant professor position in environmental ecology for appointment in the fall of 1994. Research responsibilities include the development of an active and funded research program that will complement and enhance those of present faculty in ecology and allied areas. Research areas of particular interest include: (i) landscape ecology; (ii) wetlands or riparian ecology; (iii) ecology of the land-water interface; (iv) terrestrial plant ecology; and (v) environmental toxicology. Applicants with a botanical orientation and interest in field work are particularly encouraged to apply. Teaching responsibilities include one undergraduate course in the Environmental Sciences Program and one graduate course per year. Modern laboratory and exceptional computer facilities, and the 3000-hectare University of Notre Dame Environmental Research Center (a protected study area in the Upper Peninsula of Michigan) provide unique opportunities for ecological and environmental research.

Submit curriculum vitae, list of publications, three letters of recommendation, and statements of teaching and research interests to: Ronald A. Hellenthal, Chair, Environmental Ecologist Search Committee, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556-0369 by 15 October 1993. The University of Notre Dame encourages applications from women and members of minority groups.

JOHANNES GUTENBERG-UNIVERSITY
Faculty of Medicine
MAINZ/GERMANY

The Boehringer Ingelheim Foundation supports the establishment of a research group in association with the Sonderforschungsbereich 311 "Immunopathogenese".

Applications are invited for the position of a

Research Group Leader

who studies genetic model systems for the pathogenesis or therapy of human diseases. Candidates should have a proven record of independent research activities in the field of molecular genetics, cell biology, immunology or related areas. The group is initially funded for six years (DM 750.000, --per year). Salary according to qualification. 'Habilitatation' optional.

Please send CV, list of publications with three selected reprints, an outline of research plans and names of three referees to: Prof. Dr. Dr. K.-H. Meyer zum Büschenfelde, I. Medizinische Klinik und Poliklinik, Langenbeckstrasse 1, D-55101 Mainz/Germany.

Applications close on 31st October 1993.

ASSOCIATE VICE PRESIDENT FOR RESEARCH

ASSOCIATE VICE PRESIDENT FOR RESEARCH

is a new position in the recently established Office of the Vice President for Research, with broad responsibilities for research and creative activity throughout the University at Buffalo (UB).

The OFFICE OF THE VICE PRESIDENT FOR RESEARCH is responsible for: research policy and planning; administration of organized research units; administration of externally funded research, training, and public service grants and contracts; the Office of Technology Transfer Services; industrial relations; human subjects review boards and committees responsible for oversight of various other compliance areas; the University's technology business incubator facility; and the Buffalo Materials Research Center. In addition, this office shares responsibility for economic development and federal relations.

The ASSOCIATE VICE PRESIDENT will be a key participant in policy formulation and in setting future directions for research at UB. Working with faculty, deans, other senior administrators and the UB Foundation, the successful candidate will provide leadership in developing and organizing collaborative and contractual research initiatives, assist in identifying and securing funding for such initiatives, and help advance research and public service programs that enhance the region's and the state's economic development and quality of life. Other responsibilities include administration of organized research units, institutional grants programs, and administration of core research and research support facilities.

QUALIFIED CANDIDATES will have experience at a university or research organization as an independent investigator, a record of research accomplishment, demonstrated success in securing research funding, strong administrative and leadership abilities, experience with and knowledge of relevant government funding agencies, high ethical standards and a commitment to excellence.

THE UNIVERSITY AT BUFFALO, a member of the Association of American Universities, is a major public research university with more than 25,000 students, more than 100 post-baccalaureate degree programs, approximately 6,000 faculty and staff, and an annual volume of externally sponsored research and training exceeding $120 million. Located in Western New York, Buffalo is a dynamic community with affordable housing, excellent schools, and a rich cultural climate.

APPLICATIONS and nominations will be assured full consideration if received prior to November 15, 1993. By: Chair, Search Committee for Associate Vice President for Research, University at Buffalo, 516 Cape Hall, Box 60161, Buffalo, NY 14260-1611.

THE UNIVERSITY AT BUFFALO is an Equal Opportunity, Affirmative Action Employer. Applications from members of minority groups and women are encouraged.

UNIVERSITY AT BUFFALO
State University of New York
**Faculty Positions**

Cancer Center

Completion of the new 125,000 sq. ft. Cancer Center is scheduled for the summer of 1994. This state-of-the-art facility will house ambulatory clinical services as well as a major basic research laboratory component. In support of our emphasis on translational research, applications are solicited for tenure track faculty positions at the Assistant, Associate and Professor levels in the following program areas:

**Biological Response Modifiers**
The Program Director position is available at the rank of Professor to develop this cancer immunology program. Associate and Assistant Professor level appointments are also available.

**Lymphoma Biology**
The Program Director position is available at the rank of Professor to develop this program. Appointments at Associate and Assistant Professor ranks are also available.

LOYOLA UNIVERSITY CHICAGO

MEDICAL CENTER

**Molecular Oncology**
Associate and Assistant Professor faculty positions are being recruited to contribute to this program led by Dr. Manuel Diaz.

**Viral Oncology**
Dr. Kurt Giustmann is seeking Associate and Assistant Professor level faculty to lead projects in this program area.

**Drug Resistance**
This program, led by Dr. Leonard Erickson, is seeking applications for Associate and Assistant Professor level faculty.

Interested applicants should submit a current Curriculum Vitae, three professional references, and a description of current and future research, with funding history, to the address below by November 1, 1993.

Loyola University Chicago is an equal opportunity employer/educator.

Richard L. Fisher, M.D., Director
Leonard C. Erickson, Ph.D., Associate Director
Loyola University Cancer Center
Bldg. 105 - Room 3951
2160 South First Ave., Maywood, IL 60153

**Entomologist**

FMC Corporation, a Fortune 150 leader in Agricultural Chemical R&D, is seeking a PhD Entomologist to join the research team in the discovery of insecticides.

Working closely with Chemists and Biologists, the position is responsible for conducting laboratory testing for the screening and evaluation of new insecticide leads. The successful candidate will have the ability to generate new ideas, define projects and to supervise their implementation. Superior written communication and interpersonal skills would be expected.

A PhD in Entomology or Economic Entomology, including hands-on experience in the evaluation of insecticides in the laboratory, is required. A background in the use of statistical procedures and their application to experimental design and data analysis for agricultural chemicals preferred. Some knowledge of toxicology, biochemistry and physiology would be valuable. Three to 5 years of directly applicable industry experience desirable.

FMC offers a professional environment and state-of-the-art equipment at its Princeton location. Salary commensurate with experience, excellent benefits. Please send resume to S.G. Snyder, FMC Corporation, Box 8, Princeton, NJ 08543. Equal Opportunity Employer, M/F/DV.

**Scientist/Molecular Biologist**

Ciba-Geigy's Pharmaceutical Division is recognized internationally as a leader in scientific research. And to provide the resources necessary for pharmaceutical breakthroughs, we recently occupied our new, state-of-the-art Life Science Building.

The successful candidate will have an MS or BS in Biology or Molecular Biology, along with a minimum of 1-3 years of experience in recombinant DNA methodology including gene cloning, mammalian cell expression and tissue culture.

We offer a salary commensurate with experience and education, a generous benefits package and the resources to facilitate your best work. For confidential consideration, please send your resume to: Staffing Center, Dept JN305, CIBA-GEIGY Corporation, 556 Morris Avenue, Summit, New Jersey 07901.

We are an equal opportunity employer M/F/DV.

**Postdoctoral Fellow Gene Therapy Research**

The Clinical Neuroscience Branch, National Institute of Mental Health, National Institutes of Health, is seeking to recruit a molecular biologist with less than five years postdoctoral experience to join in a collaborative effort directed toward developing more effective gene therapy for Gaucher disease and related disorders. The research will focus on the development of improved gene transfer procedures, with emphasis on gene transfer to both transgenic mouse models of Gaucher disease and human patients. Applicants should have an M.D. or Ph.D. with previous experience in molecular biology, virology and/or hematology, relevant to utilizing retroviral vectors for gene transfer into stem cell populations.

Send curriculum vitae and the names of three references to:

Dr. Edward Ginns
Clinical Neuroscience Branch
NIMH, NIH
Building 49, Room B1EE16
9000 Rockville Pike
Bethesda, MD 20892

Initial Salary Range: $25,000 - $38,000

NIMH is an Equal Opportunity Employer.
INSTITUTE MEMBER, NEUROPHARMACOLOGY

The Neurosciences Institute (NSI) invites applications for a senior position as Institute Member from candidates with research interests in neuropharmacology or cellular neurophysiology. Applicants should have research experience equivalent to that expected of a tenure-track professorial appointment and should have demonstrated scientific excellence and the ability to lead innovative research.

The NSI is an international center for distinguished visiting neuroscientists as well as the home of the Neurosciences Research Program. An independent organization, the NSI is located on the campus of The Scripps Research Institute in La Jolla, California. New laboratory facilities will be completed in the autumn of 1994.

The NSI is beginning an in-house research program in experimental neurobiology designed to increase understanding of brain processes at several organizational levels from the molecular to the cognitive. Laboratory research will be carried out in areas such as molecular biology, cellular neurobiology, neuropharmacology, neuroanatomy, functional brain imaging, and psychophysics. The experimental program will complement the in-house program in theoretical neurobiology, which has been aimed at developing biologically based, experimentally testable models of neural systems.

Institute Members will be provided with adequate financial support to equip laboratories and to maintain ongoing independent research programs. They will have opportunities for scientific interactions with Senior and Junior Fellows in Experimental Neurobiology as well as with Fellows in Theoretical Neurobiology.

Applications containing a statement of research interests, a curriculum vitae, and the names of three references should be sent to Dr. Gerald Edelman, Director, The Neurosciences Institute, 3377 North Torrey Pines Court, La Jolla, California 92037.

Academic Position in Environmental Health Sciences

Applications are invited for a tenure-track position at the assistant professor level in the environmental health sciences with an emphasis on toxicology and health risk assessment. Interested candidates should have a strong background in analysis, in combination with health-related training in the life sciences, for the purposes of developing novel methods of contaminant exposure assessment, biomarkers, molecular dosimetry and toxicity-directed analytical approaches. The position will be affiliated with the Eco-Research Chair in Environmental Risk Management, located within the Environmental and Occupational Health Programs of the Department of Health Services Administration and Community Medicine, Faculty of Medicine.

Candidates will be expected to develop an active laboratory-based research program, perform in a collaborative, inter-disciplinary research environment, teach in the areas of environmental toxicology and risk assessment and participate in the training of inter-disciplinary graduate students. The current salary range for assistant professor rank is $40,035 to $57,003 with the appointment level being commensurate with qualifications and experience.

A letter of application accompanied by a full curriculum vitae, a description of research interests and full names, addresses, telephone and fax numbers for three referees should be directed to: Dr. Steve E. Hinuday, Eco-Research Chair in Environmental Risk Management, Environmental Health Program, Faculty of Medicine, 13-103 Clinical Sciences Building, University of Alberta, Edmonton, Alberta T6G 2E5, Telephone (403) 492-6807; Fax (403) 492-9364.

The closing date for complete applications is November 30, 1993. Effective date of employment is expected to be January 1, 1994. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents.

The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

NRC is Canada's principal science and engineering organization. We work with industry partners to improve Canada's competitiveness. Currently, NRC's Plant Biotechnology Institute is looking for a Research Officer who will provide the leadership required to further enhance our record of excellence.

Research Officer

Saskatoon, Saskatchewan

Your Challenge

You will initially work in the legume biotechnology group on the development and use of transgenic crop legumes. Major duties will include the planning, managing and reporting of independent research within an integrated group project, but participation in overall project planning, support of general institute activities and development of interactions outside the project are expected.

Your Credentials

You must have a PhD in an area related to plant biotechnology and extensive research experience in plant molecular genetics. A good understanding of molecular biology, biochemistry and genetics in relation to crop improvement, and a strong record of research publication are expected. You must possess experience in the production of transgenic plants and in molecular identification of genes and/or regulation of gene expression in plants. This position also requires high levels of scientific creativity and judgement, an ability to function well both individually and as a team member or leader, combined with good verbal and written communication skills in English. A security screening will also be required.

The salary being offered will be commensurate with your qualifications, and relocation expenses, if any, will be negotiated.

Applications, clearly marked competition number PB-93-03-SC, should include a curriculum vitae, a statement of research interests and the names and addresses of three referees, and must be received on or before October 29, 1993, by the Human Resources Officer, National Research Council Canada, 435 Ellice Ave., Winnipeg, Manitoba R3B 1Y6. Tel.: (204) 984-6081

NRC is an equal opportunity employer.

Vous pouvez obtenir ces renseignements en français.
POSITIONS OPEN

HEALTH SERVICES RESEARCH ANALYST

Memorial Mission Hospital is seeking a Research Scientist to direct its Cardiovascular Research Program. The successful candidate should have an established record in clinical cardiovascular research, computer science or database management, as well as administrative experience. This is an excellent opportunity for an individual with leadership qualities to work in a new facility and live in a quality community. Candidates should send curriculum vitae, a statement of research interests and three references to: Elena Donaldson, Professional Recruiter, Memorial Mission Hospital, 509 Biltmore Avenue, Asheville, NC 28801-4690. Mission Hospital is an Equal Opportunity/Affirmative Action Employer.

RESEARCH DAIRY SCIENTIST RESEARCH GENETICIST (ANIMAL)

The Gene Evaluation and Mapping Laboratory, Beltsville Agricultural Research Center, Beltsville, Maryland, seeks a permanent staff member to map genes related to productivity and health in dairy cattle. Must have knowledge and skills in application of molecular, biological and cytogenetic techniques to the genetic or physical mapping of genes. Ph.D. desired; GS-11/12/13 ($33,623 to $62,293). Salary commensurate with experience. Submit SF-171, transcripts, and copy of curriculum vitae to: J. Harrington, Personnel Division, USDA, ARS, 6305 Ivy Lane, Greenbelt, MD 20770. Responses to this announcement should be marked 3B010 and must be mailed by October 4, 1993. For information about the position, call Dr. Recroad at 201-768-4524. ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.


RESEARCH PHYSICIST Laboratory of Structural Biology Division of Computer Research and Technology National Institutes of Health Bethesda, Maryland

Position available for a Research Physicist responsible for planning and conducting multidisciplinary theoretical and applied research in mathematics, physics, and chemistry in areas related to structural biology. The incumbent serves as an independent research investigator who organizes, plans, and conducts original theoretical and experimental research in physics of biomolecular interactions. Candidates must have a Ph.D. or an equivalent doctoral degree, completed postdoctoral training, and work experience that demonstrates independent research in biophysical interactions, particularly hydration forces and their role in specific assembly processes. Salary: $40,298 to $47,920. Qualified candidates should send curriculum vitae and SF-171 to: Vozzen A. Parsegian, Ph.D., NIH—Building 12A/2039A, 9000 Rockville Pike, Bethesda, MD 20892.

Applications must be received by October 15, 1993. NIH is an Equal Opportunity Employer. U.S. Citizenship Required.

EXHIBIT DEVELOPER Museum of Science and Industry

Research topics in science, technology, and medicine and develop them into exhibits understandable, relevant, and fun for the public. As a part of a project team, the developer will contribute to design direction; originate/evaluate exhibit content; and develop incredible interactions. Must have strong management skills and excellent communication abilities. Send letter, curriculum vitae, 2-page description of exhibit interests, and 3 references to: Barry Aprison, Ph.D., Museum of Science & Industry, 57th Street & Lake Shore Drive, Chicago, IL 60637.

POSITIONS OPEN

PSYCHIATRIST ALCOHOL DISORDERS

BIRMINGHAM—UAB Department of Psychiatry seeks academically oriented, BC/BE psychiatrist to develop and direct operation of an alcohol disorders program. Ideal candidate should demonstrate interest and expertise in patient care, teaching and research in area of alcohol disorders. Highly competitive salary and benefits. Assistant/Associate Professor level. Application and curriculum vitae to: Robert O. Friedel, M.D., Chairman, Department of Psychiatry, University of Alabama at Birmingham, 1760 7th Avenue South, Birmingham, AL 35294—0018. Affirmative Action/Equal Opportunity Employer.

MOLECULAR BIOLoGIST—The Deborah Research Institute, a private nonprofit research institute, has a position available for a Molecular Biologist to work in the cardiovascular system and muscle. This person must have a Ph.D., preferably in cell biology, biochemistry or molecular biology with at least two years of postdoctoral experience in a molecular genetics laboratory. The person must have capability of developing an independent research program in cardiovascular biology, as well as collaborating with other basic and clinical scientists. Interested persons should submit current curriculum vitae, three published papers or manuscripts, and addresses of three references. Beginning date: January 1, 1994. Send information to: C. D. Ianuzzo, Ph.D., Director, Deborah Research Institute, Trenton/Pine Mill Roads, Browns Mills, NJ 08015—1799. Telephone: (609) 893-1016, FAX: (609) 893-2441. Equal Opportunity Employer.

ELECTROCHEMISTRY SPECIALIST: A position is available immediately for a Ph.D. with a strong background in electrochemistry/analytical chemistry, to work on the development of novel sensors for the HPLC/life science marketplace. Candidates having experience with HPLC, electrochemical detectors, modified electrodes and biosensors would be preferred. Send curriculum vitae, with current telephone numbers of 3 references to: Debra Ayer, Personnel, ESA Inc., 45 Wiggins Avenue, Bedford, MA 01730.

ANNOUNCEMENTS

RESEARCH AWARDS

The International Life Sciences Institute, Risk Science Institute will award grants in 1994 of up to $50,000 per year for 2 years to support research relevant to human health risk assessment. Research proposals (due November 1993) are encouraged in the areas of immunotoxicity, reproductive/developmental toxicity, and non-genotoxic mechanisms of carcinogenesis. Direct requests for information (mail or FAX only) to: Ms. Stephanie Carter, ILSI-RSI, 1126 16th Street N.W., Washington, DC 20036. FAX: (202) 659-8654.

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