POSITIONS OPEN

FACULTY POSITIONS

The Center for Extracellular Matrix Biology at the Institute of Biosciences and Technology, Texas A&M University, located at the Texas Medical Center, Houston, Texas, invites applications for two tenure-track positions at the ASSISTANT PROFESSOR level. Applicants should have a Ph.D. or M.D. and a proven record of accomplishments as a postdoctoral fellow or faculty member and have research interests in the area of extracellular matrix biology. Preference will be given to candidates with training in biochemistry and/or cell biology and experience in molecular biology.

Applicants should submit a letter outlining their research interests, their curriculum vitae and three letters of reference to: Dr. Magnus Hook, c/o Bill Alley, Institute of Biosciences and Technology, 2121 Holcombe Boulevard, Houston, TX 77030.

The Texas A&M University System is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR—ANATOMY

The Department of Anatomy of the Kirkville College of Osteopathic Medicine is seeking applications for a tenure-track assistant professor. The faculty member shall participate in teaching gross anatomy to medical students and will be expected to establish an independent research program. Applicants should submit curriculum vitae, the names of three references, and a brief description of research interests by 1 May 1992 to: Lex Towns, Ph.D., Department of Anatomy, Kirksville College of Osteopathic Medicine, Kirksville, MO 63501. Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR

The Department of Microbiology and Molecular Genetics of Harvard Medical School is seeking a talented young researcher for SIV/AIDS research at the affiliated New England Regional Primate Research Center. Successful candidates will develop an independent research program and to collaborate with other faculty members on site doing federally funded SIV/AIDS research. Send curriculum vitae, copies of representative publications and names of three references to: Search Committee, Division of Microbiology, New England Regional Primate Research Center, Harvard Medical School, 1 Pine Hill Drive, Box 9102, Southborough, MA 01772–9102. Harvard Medical School is an Equal Opportunity/Affirmative Action Employer.

PHARMACOLOGY—ASSISTANT PROFESSOR UNIVERSITY OF THE PACIFIC SCHOOL OF PHARMACY

Applications invited for tenure-track position, assistant professor level; 11-month appointment. Background in organ system pharmacology who is committed to active, independent research. Responsibility for teaching organ systems component of a human pharmacology course. Active involvement in graduate program (M.S., Ph.D.). Doctoral degree and experience essential. Candidate reviews begin 20 April 1992. Send curriculum vitae and three letters of reference to: Associate Dean Robert Supernaw, School of Pharmacy, University of the Pacific, Stockton, CA 95211. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSISTANT PROFESSOR

A position is available for a Ph.D. or equivalent to conduct independent research and to work collaboratively with other investigators in the study of the cellular and molecular basis of immune cytocence activation. This individual should have completed at least 2 years of postdoctoral research experience which is well documented by publications in peer-reviewed journals. A background in drug discovery will be preferred. The position is in the Division of Surgical Oncology, Department of Surgery.

Stanford University is committed to increasing the representation of women and members of minority groups in its faculty and particularly encourages applications from such candidates. To apply, send curriculum vitae and references to: Chairman, Department of Surgery, Stanford University School of Medicine, Medical School Office Building, Room X360, Stanford University, Stanford, CA 94305.

POSITIONS OPEN

Temple University School of Medicine is offering two tenure-track positions in the Physiology and Thrombosis Research Center at the ASSISTANT PROFESSOR level. Applicants must have an M.D. or Ph.D., with demonstrated research expertise in liquid-breathing and/or endothelial physiology and may have a molecular biology, biochemical physiological or pharmacological background. The candidates are expected to develop an independent research program and to participate in some aspects of collaborative programs. Applicants should forward curriculum vitae, a description of research interests, and three letters of recommendation by 30 March 1992 to: Dr. James Ryan, Department of Physiology, Temple University School of Medicine, Philadelphia, PA 19140. Temple University is an Equal Opportunity Employer. Applications are encouraged from women and members of minority groups.

RESEARCH ASSISTANT PROFESSOR to join a leading team of clinicians and research scientists at a major university. This nontenured, nontenure-earning position will be responsible for directing the molecular biologic component of an established fundamental research laboratory. Interested applicants should have expertise in molecular biology, especially transfection. Experience in receptor biology is desired. The position requires a Ph.D. degree. Competitive salary and generous benefits package. Send curriculum vitae and reference to: William J. Koopman, M.D., Howard L. Holley Professor of Medicine, Director, Division of Clinical Immunology and Rheumatology, The University of Alabama at Birmingham (UAB), Birmingham, AL 35294. UAB is an Affirmative Action/Equal Opportunity Employer.

The Diabetes Research Center and the Department of Biochemistry and Biophysics of the University of Pennsylvania Medical Center, for a RESEARCH ASSISTANT PROFESSOR in the area of pancreatic islet cell glucose metabolism and insulin secretion. The appointee will be expected to participate in an interdisciplinary teaching effort for pancreatic islet research ranging from islet cell transplantation to the molecular genetic basis of diabetes mellitus in animals and man. Candidates should forward their curriculum vitae, summary of research interests and arrange for three letters of recommendation to be sent to: Ms. Ruth Keris, Staff Assistant, Department of Biochemistry and Biophysics, University of Pennsylvania School of Medicine, Philadelphia, PA 19104–6059. The deadline for applications is 24 April 1992. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

The Department of Pharmacology in conjunction with the Pittsburgh Cancer Institute is seeking applicants for one or more tenure-track positions at the ASSISTANT and/or ASSOCIATE PROFESSOR levels. These individuals should have demonstrated conducting and producing original laboratory-based research in cancer biology. We are especially seeking scientists who are interested in cellular signaling, oncogene and tumor suppressor gene expression, transcriptional regulation or chemotherapy. Provide curriculum vitae and references to: Carol Larson-Edwards, Department of Pharmacology, University of Pittsburgh School of Medicine, E1340 Biomedical Science Tower, Pittsburgh, PA 15261. Equal Opportunity/Affirmative Action Employer.

A full-time position available as ASSISTANT/ASSOCIATE PROFESSOR at the University of California (UC) Davis Medical Center, Sacramento, for individual Board-certified or Board-eligible in internal medicine and nephrology with a strong commitment to research, preferably in molecular or cellular biology. The individual recruited will participate in all clinical, research and teaching activities of the Nephrology Division. Opportunities for basic research are available in the division; current activities are primarily directed at cellular and molecular biology and will interact with our ongoing areas of investigation is highly desirable. Research start-up money will also be available. Interested with the activities on the UC Davis campus will be encouraged. Address inquiries to: George A. Kaysen, M.D., Ph.D., Nephrology 4301 X Street, Sacramento, California. Applications accepted after 15 June 1992 with an anticipated start date of 1 January 1993.

The University of California is an Affirmative Action/Equal Opportunity Employer.
ASSOCIATE DEAN 
DIVISION OF BASIC MEDICAL SCIENCES 
FACULTY OF MEDICINE 
MEMORIAL UNIVERSITY OF NEWFOUNDLAND

The successful applicant will have an established reputation in research, demonstrated administrative capability and a commitment to support teaching at the undergraduate and graduate levels. The position is available July 1, 1992. Both internal and external candidates are encouraged to apply.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. Applications with a detailed curriculum vitae and the names of three references should be sent by May 31, 1992.

Dr. Roy West, Chair 
Search Committee for Associate Dean 
Basic Medical Sciences 
Faculty of Medicine 
Health Sciences Centre 
Memorial University of Newfoundland 
St. John’s, Newfoundland 
Canada A1B 3V6 
Telephone: (709) 737-6652 
FAX: (709) 737-7382

POSITIONS OPEN

FACULTY POSITIONS 
MEHARRY MEDICAL COLLEGE

Applications are invited for a tenure-track position as ASSISTANT OR ASSOCIATE PROFESSOR in the Department of Microbiology. Candidates are sought with training and research experience in immunology or microbial pathogenesis. Successful applicants will be expected to participate in graduate and professional teaching programs of the department and to develop and maintain extramurally funded research program. In- 
stitutional programs in cell and molecular biology, neuro- 
sciences, and tropical diseases provide opportunities for collaborative research. Applications from minority and women candidates are especially encouraged.

Please send curriculum vitae, a summary of research interests and three references to:

Shirley B. Russell, Chairperson 
Department of Microbiology 
Meharry Medical College 
Nashville, TN 37208

Meharry Medical College is an Affirmative Action/Equal 
Opportunity Employer.

FACULTY POSITIONS IN BIOCHEMISTRY

The Department of Biochemistry at The University of South Alabama College of Medicine seeks applicants for three tenure-track positions at the level of ASSISTANT OR ASSOCIATE PROFESSOR beginning July 1, 1992. Very competitive salary, start-up funds and laboratory space are available. Candidates must show strong promise of maintaining extramural funding for their research. Although excellence of the individuals is more important than his/her area of study, those whose research combines biochemistry, molecular biology and other experimental approaches to the study of mecha-

FACULTY POSITION IN PHARMACOLOGY 
TOXICOLOGY FOR TOXICOLOGIST

The University of Mississippi Medical Center invites applications for a position with the rank of ASSOCIATE OR FULL PROFESSOR in the Department of Pharmacology and Toxicology. The applicants should have a Ph.D. or M.D. degree, a strong record of published research and a history of grant support in areas using modern biochemical, cell biological or molecular genetic approaches to toxicological research. Applicants interested in immunological, neurological, environmental, or reproductive toxicology are most desired. Salary and rank will be commensurate with education and experience. The successful applicant is expected to establish an independent, extramurally funded research program and participate in the teaching activities of the department. Interested persons should send curriculum vitae with a brief description of research interests and arrange for three letters of reference. These should be sent to: Arthur S. Hume, Ph.D., Chairperson, Department of Pharmacology and Toxicology, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505. Equal Opportunity Employer, M/F/H/V.

GROSS ANATOMY

The School of Podiatric Medicine at Barry University seeks applicants for ASSOCIATE OR ASSOCIATE PROFESSOR of gross anatomy. Requirements: Ph.D. with preparation in anatomy with background in histology; commitment to teaching podiatric medical students; preferred minimum of 5 years of full-time teaching/research experience. Responsibilities include lecture, cadaver laboratory and student advising. Send resume, transcripts and three letters of recommendation to: Chet Evans, D.P.M., F.A.C.F.S., Dean, Barry University School of Podiatric Medicine, 11300 N.E. 2nd Avenue, Miami Shores, FL 33161.

SCIENCE, VOL. 255
POSITIONS OPEN

NEUROSCIENTIST POSITION: The Ohio State University. Applications are invited for a ten-year-track position at the ASSISTANT OR ASSOCIATE PROFESSOR level. We seek someone for a primary appointment in a clinical department with the potential for a joint appointment in a basic science department. The successful candidate should have evidence of research and teaching excellence in molecular, cellular or systems neuroscience; the M.D. degree; and Board certification or eligibility in a clinical neuroscience specialty. Our neuroscience program currently includes 80 faculty members with a variety of interests including developmental neuroscience, regenerative and plasticity, biochemical neuropathology, central nervous system transplant technology, gastrointestinal neurophysiology, nervous control over homeostasis, neuropharmacology, psychobiology, psychoneuroimmunology, brain imaging, neuromuscular diseases, movement disorders, neuro-epidemiology, Alzheimer's disease, and neurobiology of schizophrenia and affective disorders. Applications including curriculum vitae, and three to five references should be sent to: Dr. George F. Martin, Department of Cell Biology, Neurobiology and Anatomy, 4066 Graves Hall, 333 West 10th Avenue, The Ohio State University, Columbus, OH 43210 by 30 June 1992 or until the position is filled. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN THE DEPARTMENT OF MOLECULAR GENETICS, BIOCHEMISTRY AND MICROBIOLOGY
We are presently searching for a faculty member to complement one or more of our areas of interest which include protein structure and engineering, virology, microbial and mammalian genetics, gene regulation and developmental biology, and immunology. Generous space and start-up funds are available and the appointment will be at the ASSISTANT OR ASSOCIATE PROFESSOR level. The department currently has 25 full-time members with strong research programs and is the lead department in the NHLBI-sponsored Program of Excellence in Molecular Biology. We maintain a strong and active graduate program, plus core facilities in microbiology, cell culture, DNA synthesis and sequencing, and production of transgenic mice. All of these factors contribute to an excellent research atmosphere. Applicants should submit curriculum vitae, brief description of anticipated research and the names of three qualified references to: Jerry B. Lingrel, Ph.D., Professor and Chair, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati College of Medicine, Cincinnati, OH 45267-0524.

EMORY UNIVERSITY SCHOOL OF MEDICINE DEPARTMENT OF RADIATION ONCOLOGY RESEARCH POSITIONS
The Department of Radiation Oncology seeks faculty at the ASSISTANT, ASSOCIATE AND PROFESSOR ranks for new positions in the department. Areas of particular interest include the nature and origin of mutations creating dominant and recessive oncogenes, molecular mechanisms of tumor progression, the role of oxygen radicals in radiation toxicity and mutagenesis, differential sensitivity of tumor cells to environment and therapeutic agents, and model systems for metagenesis. The department includes a new state-of-the-art Radiation Therapy Center with significant research space. Collaborations are anticipated with faculty in the Departments of Surgery, Genetics and Molecular Medicine, and the Cancer Center. Candidates should hold credentials suitable for faculty appointment at the various ranks with a demonstrated record of research. Applications will be accepted until positions are filled and should include curriculum vitae and the names of three references and should be forwarded to: Lawrence W. Davis, M.D. Professor and Chairman Department of Radiation Oncology The Emory Clinic 1365 Clifton Road, N.E. Atlanta, GA 30322

Affirmative Action/Equal Opportunity Employer.

Pharmacodynamics Research

The Medical Research Division of American Cyanamid Company is recognized as a leader in the research and development of therapeutic compounds. Our products have been instrumental in the treatment of infectious diseases, cancer, cardiovascular and central nervous system diseases. We currently have several opportunities available for scientists to participate in the Pharmacokinetics, Bioanalytical and Drug Metabolism Departments.

Senior Research Scientist, Project Planning and Documentation
In this highly visible position, you will be responsible for the critical evaluation and summarization of pharmacokinetic, metabolism and bioanalytical data in support of global drug registration and product acquisitions. This position involves extensive interaction with other groups in the Medical Research Division including Regulatory Affairs, and Clinical and Toxicology Research, as well as supervisory responsibilities.

Applicants should have a Ph.D. or Pharm. D. in pharmaceutical sciences, pharmacology, toxicology or related field and 4-6 years experience. Expertise in clinical and or nonclinical pharmacokinetics, data presentation and technical writing are required. Preference will be given to candidates with expertise in drug development and global drug registration guidelines. (Dept. EW)

Senior Research Scientist and Research Scientist, Bioanalytical
We are seeking experienced Bioanalytical Chemists to work in state-of-the-art laboratories using automated HPLC/GC/Rotronic instruments. As a Senior Research Scientist, you will be responsible for developing sensitive analytical methods for new drug candidates in biological fluids and improvement of existing methods. As a Research Scientist you will provide analytical support for both pre-clinical and clinical studies, be responsible for validation of bioanalytical methods and analysis of bio-fluids/tissues for trace levels of drugs and their metabolites under GLP compliance. You will also monitor similar work performed at contract labs.

Both positions require a Ph.D. in analytical chemistry or related field with 2-4 years bioanalytical experience or M.S. with 4-6 years bioanalytical experience. A background in organic chemistry and understanding troubleshooting of automated HPLC/GC is required. Good writing skills, experience with Zymark Robots and supervisory experience are desirable. (Dept. SB)

Senior Research Scientist, Drug Metabolism
This position involves planning, organizing and conducting complex in vivo and in vitro drug metabolism studies utilizing a wide variety of analytical techniques. Expertise in drug metabolism, enzymology and medicinal chemistry is desirable. The individual will collaborate with scientists in drug discovery research and safety assessment.

Applicants should have a Ph.D. in biochemistry, medicinal chemistry, pharmacology or related field with 2-4 years relevant Post-doctoral experience and good oral and written communication skills. (Dept. DC)

Our Research Discovery Labs are located in Rockland County on the 580-acre, campus-like setting of Lederle Laboratories, 25 miles northwest of Manhattan. This interdisciplinary research community is a stimulating environment for professional growth and affords easy access to several excellent universities and medical schools.

If you are interested in one of these positions, please send us a c.v. with salary requirements and indicate the Dept. code for the position of your choice, to: Professional Employment, Lederle Laboratories, 401 N. Middletown Road, Pearl River, NY 10965. An Equal Opportunity Employer M/F.

Dedicated People Dedicated To People Since 1906.
NUTRITION POSITION AVAILABLE, ASSISTANT/ASSOCIATE PROFESSOR. The Department of Nutrition Sciences, University of Alabama at Birmingham (UAB), is seeking qualified candidates as FACULTY LINE for the Division of Gastroenterology/Nutrition. This is a full-time, 12-month tenure-earning position. Candidates should have a Ph.D. degree with extensive experience in nutrition and lipoprotein metabolism, especially gene expression. Academic rank/salary will be commensurate with qualifications. Interested persons should send curriculum vitae and a list of three references to: Dr. Rodney Howell, Search Committee Chairman, Department of Nutrition Sciences, Division of Gastroenterology/Nutrition, University of Alabama at Birmingham, UAB Station B142, Birmingham, AL 35294. UAB is an Affirmative Action/Equal Opportunity Employer.

PROFESSOR OF OPHTHALMOLOGY, HARVARD MEDICAL SCHOOL, MASSACHUSETTS EYE AND EAR INFIRMARY

Harvard Medical School and Massachusetts Eye and Ear Infirmary are seeking an educator, scientist, and administrator of ophthalmology from individuals with strong credentials in the area of molecular genetics, biochemistry, and cell biology of the retina. Research should be directed at a cellular basis of photoreceptor function. In addition to conducting his/her own major research program, the individual will foster collaborations with scientists in the Howard Hughes Laboratories and the Berman-Gund Laboratory at the Massachusetts Eye and Ear Infirmary. The individual is also expected to be actively involved in the teaching and training of residents, post-doctoral fellows, and young clinicians seeking experience in laboratory research. Reply with curriculum vitae and statement of research interest to: Dr. Frederick Jakobsie, Chairman, Department of Ophthalmology, Massachusetts Eye and Ear Infirmary, 243 Charles Street, Boston, MA 02114. Harvard Medical School and Massachusetts Eye and Ear Infirmary are Affirmative Action/Equal Opportunity Employers, M/F/D/V.

ASSISTANT CHAIRPERSON. The Department of Biochemistry, Molecular Biology and Cell Biology, Northwestern University, Evanston, invites applications for the position of assistant chairperson. This is a permanent, nontenure-track position with the rank of lecturer. The assistant chairperson’s duties include project management, planning analyses, development of industrial relations, administration of graduate recruitment, coordination of graduate training and research. Candidates must have a Ph.D. in the life sciences; administrative experience is required. Candidates with academic experience are encouraged to apply and should send their curriculum vitae and arrange for three letters of recommendation to: Dr. Frederick Jakobsie, Chairman, Search Committee, Department of Biochemistry, Molecular Biology and Cell Biology, Northwestern University, Evanston, IL 60208.

COA STAFF DIRECTOR

The Council on Ocean Affairs, representing 30 marine science institutions, is seeking a full-time Staff Director. The Staff Director is responsible for managing the activities of the council, which is administratively housed in Joint Oceanographic Institutions Incorporated (JOI Inc.), a cooperative venture among the academic community, the public, and policy-makers in Washington, D.C. The Staff Director will be expected to represent council interests and to keep council member institutions informed on a wide variety of issues.

Qualifications necessary include a master's degree or equivalent, experience in a related geo-physical science and a good working knowledge of the academic community, the federal decision-making structure, and the political process. Excellence in interpersonal, organizational, and writing skills are essential. Computer skills are highly desirable. The position will be open in late spring; exact starting date and salary are negotiable.

Applications should submit a letter of interest and resume to: Personnel-COA, Joint Oceanographic Institutions Incorporated, 1785 Massachusetts Avenue, N.W., Suite 800, Washington, DC 20036-2102 by 30 April 1992. JOI Inc. is an Equal Opportunity/Affirmative Action Employer.

NOMINATIONS AND APPLICATIONS INVITED FOR POSITIONS OF CHAIR OF BIOLOGY UNIVERSITY OF LOUISVILLE

The University of Louisville is a state university with 23,000 students. The Department of Biology has 18 faculty with 201 undergraduates enrolled in M.S. and Ph.D. programs. The department confers a Ph.D. in environmental biology. Research interests in the department are diverse and include systematics studies. Preference will be given to candidates whose research program will complement and support current departmental programs in environmental biology. Candidates are expected to have prior administrative experience, an outstanding record of research and extramural funding, and academic credentials necessary for appointment at the level of tenure. Screening of applicants will start 13 April 1992. Send curriculum vitae, statement of research interests, and names and addresses of three references to: Chair, Search Committee, Department of Biology, University of Louisville, Louisville, KY 40292. The University of Louisville is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY AND MOLECULAR BIOLOGY

The University of Miami School of Medicine is seeking applications for the position of Professor and Chair of the Department of Biochemistry and Molecular Biology. The person filling this position will have the opportunity to greatly expand the department's capabilities in the area of molecular biology. Substantial funds for the development of the department are available through a generous award from the Lucille F. Markey Charitable Trust as well as considerable funding from the University. In addition to funding the new chair these resources will be used to support a number of new faculty, as well as start-up funds and major new equipment. The department occupies a new seven-story building which was completed in the fall of 1990. The department includes 16 faculty members, a four-faculty member tenure-track for Post-docs, and a well-established graduate program with 35 trainees.

The applicant must have a Ph.D., M.D. or equivalent degree, be internationally recognized for contributions to molecular biological research, have a commitment to educational activities, and have clearly demonstrated leadership and administrative capabilities. The successful candidate is expected to be an outstanding scientist with a strong ongoing, independent and well-funded research program. This person will be expected to promote the molecular biological research activities and support of the department, the Medical School and the university, and to recruit outstanding scientists to the faculty.

Interested applicants should submit curriculum vitae including the names of three references to: Dr. Rodney Howell, Search Committee Chairman, Department of Pediatrics, University of Miami, P.O. Box 016820 (D-820), Miami, FL 33101. An Equal Opportunity/Affirmative Action Employer.

THE SCHOOL FOR FIELD STUDIES

IN CONJUNCTION WITH NORTHERN UNIVERSITY

FIELD DIRECTIONS OPEN

MARINE MAMMALS, RAJA, MEXICO

MARINE RESOURCES, CARIBBEAN

The School for Field Studies (SFS) is seeking the following positions on the island of Raja Ampat, Indonesia for the 1993-94 field season: MARINE MAMMAL研究 positions (field director, field assistant and laboratory technician). The Marine Mammal Research Program will focus on studying the biology and behavior of the large marine mammals of the region. The program will be based on the shore of Raja Ampat on the island of Batanta. The School for Field Studies is an Equal Opportunity Affirmative Action Employer. For more information please contact: Rob Frigge, SFS, 2 South Waverley Road, Cambridge, MA 02138. Tel: 617-864-1387. Fax: 617-864-1384.

SFS will be distributed to scientists attending the following meetings:

FASEB 5 to 10 April 1992, Anaheim
Issue Date: 27 March 1992

3 April 1992

Analytica

5 to 8 May 1992, Munich
Issue Date: 24 April 1992

American Society for Microbiology
26 to 30 May 1992, New Orleans
Issue Date: 8 May 1992

Biotechnology/Pharmaceutical Careers
Special Issue of Science
Issue Date: 8 May 1992

Your classified ad will enjoy
BONUS DISTRIBUTION at these meetings:
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FAX: 202-682-0816

SCIENCE, VOL. 255
**Research Investigator Neuropharmacology**

This individual should possess a Ph.D. in Neurochemistry/Neuropharmacology/Neurobiology and 1-2 years postdoctoral experience. The incumbent will be conversant with the techniques of in vitro neurotransmitter release and uptake; first-hand experience with measurement of activity of second messenger systems (cAMP, cGMP, PI) would be a plus. A knowledge of measurement of ion flux (45Ca++, 86Rb+, and the use of fluorescent dyes) would also be attractive. An understanding of the neurochemical events surrounding cerebral ischemia/hypoxia/stroke, including the role of excitatory amino acids, adenosine, and ion channels is highly desirable. Please reply to Dept. ATZ-92-0050.

**Assistant/Associate Research Scientist**

This position requires a BS/MS and experience with ligand-receptor interactions and receptor-mediated signal transduction systems. A strong background in molecular pharmacology and experience with cell culture and receptor cloning are preferred. Please reply to Dept. ATZ-92-0048.

**Assistant Associate Research Scientist Electrophysiology**

Primary responsibilities will be to conduct EEG studies with an emphasis on the neuropharmacological treatment of sleep disorders. A BS/MS and relevant background are necessary. Experience with surgical techniques and anesthesiology, plus familiarity with the operation of electrophysiological lab equipment such as oscilloscopes, amplifiers and physiographs, is desirable. Preference will be given to candidates with a working knowledge of computer-based data acquisition and analysis systems including some programming skills. Please reply to Dept. ATZ-92-0051.

We offer a competitive salary and benefits package. For consideration, please forward your resume and salary history, along with appropriate Dept. code, to: Bristol-Myers Squibb Pharmaceutical Research Institute, P.O. Box 5101, Wallingford, CT 06492-7661. Equal Opportunity Employer, M/F/D/V.
MOLECULAR GENETICIST ANNOUNCEMENT
POST-DOCTORAL RESEARCH ASSOCIATE, MOLECULAR GENETICS. Knipling-Bushland U.S. Livestock Insects Research Laboratory, Kerrville, Texas.

The United States Department of Agriculture, Agricultural Research Service is seeking a MOLECULAR GENETICIST to work with a team of investigators developing a sensitive procedure for detecting pesticide resistance in individual, field-collected ticks. Candidate must have a working knowledge of and experience using modern recombinant nucleic acid techniques, including DNA and RNA isolation, producing and screening recombinant libraries, and amplification and characterization of genes. Knowledge of the genetics of pesticide resistance in insects or acarines would be helpful, but not essential. Ph.D. received within the last 4 years is required prior to entrance on duty. Initial appointment will be for two years. Salary is commensurate with experience ($32,423 to $50,516 per annum). For information on the research program/position and for information on application procedures/forms, contact Larry R. Hilburn at (512) 257-3566. Applications in response to this advertisement should be marked RA-92-59 (5-2-020). Applications must be received by 1 June 1992.

Mailing Address:
USDA, ARS, Knipling-Bushland U.S. Livestock Insects Research Laboratory
P.O. Box 232
Kerrville, TX 78029-0232

The USDA is an equal opportunity employer.
UNIVERSITY OF LUMEN, PRINCIPALITY OF THE UNITED ARABS EMIRATES

The Faculty of Medicine and Health Sciences was established by Royal Decree in 1986 with the clear remit of becoming an international center of excellence both in terms of teaching and research. To this end, applications are invited from suitably experienced individuals to hold the following positions:

Professor and Chairman—Department of Anatomy
Professor and Chairman—Department of Pharmacology
Professor and Chairman—Department of Physiology

Each Department has a complement of academic members and an establishment of technicians. Facilities for research are available.

Applicants for this position must possess a Ph.D. degree; in addition if medically qualified, evidence of high professional standing is necessary, such as Fellowship of a Royal College of the U.K., Ireland, Canada, Australia and New Zealand, or certification by the American or Arab Board for Medical Specialization.

Applicants for this position must be able to demonstrate leadership experience in the development and implementation of teaching, research and, if appropriate, clinical service programmes. Fluency in English is essential as this is the language of instruction.

Benefits for the successful appointment include an extremely competitive tax-free salary, free accommodation, furniture allowance and assistance with children’s school fees. The University will also provide an interest free car loan and business class tickets from the point of recruitment at the beginning and at the end of the contract and once during the academic year. An award of 8.6% of the gross salary is payable at the end of each year of service.

The Emirates has one of the most enviable lifestyles of the Gulf Region with all the amenities of any modern society.

Interested candidates may apply by sending a comprehensive curriculum vitae, a list of publications, copies of certificates and the names and addresses of four current referees to:

Professor Mel M. Ledingham
Dean—Faculty of Medicine
United Arab Emirates University
P.O. Box 17655
Al Ain, United Arab Emirates
Fax No. 00971-3-655549

Applications will be closed 6 weeks after the date of publication.

Succeeding Together
Research ◆ Treatment ◆ Education

The Ontario Cancer Institute is one of North America’s largest cancer research and treatment centers and houses the Department of Medical Biophysics of the University of Toronto.

Senior Scientists
MOLecULAR AND STRUCTURAL BIOLOGY

The institute invites applications for senior scientist positions in the Division of Molecular and Structural Biology. This newly established division is part of a major expansion into structural biology in the Toronto area and has state-of-the-art instrumentation for macromolecular crystallography, high resolution multi-dimensional NMR spectroscopy, electron microscopy, molecular biology and protein chemistry. Research interests include protein-protein and protein-DNA interactions, membrane transport, antibody-ligand interactions and structure-function relationship of biologically active polypeptides.

Candidates are sought with expertise in areas complementary to the current staff, for example, in one or more of the following technical areas: theoretical/computational studies of macromolecular structure, protein chemistry and engineering, or macromolecular crystallography. The successful applicant will be eligible for a faculty appointment at a level appropriate for his/her experience in the Department of Medical Biophysics, a graduate department of the University of Toronto which stresses strong multi-disciplinary research. In accordance with Citizenship and Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. All qualified candidates are encouraged to apply.

Applicants are invited to send their curriculum vitae, a brief description of research interests, and the names of three references to: Dr. Victor Ling, Ontario Cancer Institute/Princess Margaret Hospital, 500 Sherbourne St., Toronto, Ontario, Canada, M4X 1K9.

Ontario Cancer Institute
Princess Margaret Hospital
POSITIONS OPEN
DIRECTOR OF EDUCATION HARBOR BRANCH OCEANOGRAPHIC INSTITUTION (HBOI)

With the completion of the new J. Seward Johnson Marine Education and Conference Center, HBOI, seeks an experienced educator to organize and direct educational enrichment undergraduate, graduate and postdoctoral levels and to oversee the use of the facility for professional conferences.

The candidate should have a Ph.D. in science or engineering, experience as a university teacher in the sciences, specific affiliations with ocean-going ships and a major understanding of the marine sciences and marine biology. The candidate will be responsible for building and strengthening formal affiliations with major universities, organizing a year-round program of courses and conferences, recruiting students into marine science, and securing financial funds to support all activities. To apply, send letter of application, curriculum vitae and three letters of recommendation to: Mrs. Brenda S. Dill, Office of Academic Affairs, Fisk University, Nashville, TN 37208. Affirmative Action/Equal Opportunity Employer.

TENURE-TRACK POSITION IN BIOLOGY

Fisk University is seeking applicants for a position in the Department of Biology. Requirements for this position are a Ph.D. in biology, with training in biochemistry or related discipline. The candidate will be expected to establish an independent research program, and to interact with other members of the department. The candidate will be expected to establish an independent research program, and to interact with other members of the department.

TENURE-TRACK APPOINTMENT, VASCULAR BIOLOGY

The Department of Radiology at the University of Pennsylvania School of Medicine has a tenure-track position effective July 1992. Candidates with a Ph.D. and/or medical degree in vascular biology or cellular biology of vascular cells will be considered. The position will be open to someone with experience in vascular biology or cellular biology of vascular cells.

POSITIONS OPEN


FACULTY POSITION IN MACROMOLECULAR CRYSTALLOGRAPHY

Texas A&M University invites applications at all academic levels for a tenure-track faculty position in the area of macromolecular structure. The position is within the Department of Biochemistry and Biophysics and the Center for Macromolecular Design of the Institute of Biosciences and Communication of Texas A&M University. Substantial resources are available to establish a new research program in the area of protein or nucleic acid structure and function, complementing existing programs. Candidates that apply by 1 April 1992. Applications will be accepted until the position is filled. E-mail Address: BALDWIN@TAMBIGRF

POSTDOCTORAL POSITION

The Division of Renal Diseases and Hypertension at the University of Colorado Health Sciences Center is seeking a postdoctoral fellow at a FACULTY LEVEL position commensurate with experience. The investigator will be expected to have expertise in the application of molecular biological approaches to the study of signal transduction mechanisms, hormone action and/or gene expression. Candidates should demonstrate a commitment to excellence in research and ability to interact with other members of the department.

NEUROBIOLOGIST. A 1-year position with the possibility of continuation on a tenure track available fall 1992. Teaching duties include neurobiology, introductory biology, and direction of student research projects. Research facilities and equipment funds available. We seek an individual with demonstrated excellence in teaching and research, and a commitment to lab teaching. Send letter of application and three letters of recommendation to: Dr. Bruce R. Kauffman, Chairman, Department of Biomedical Sciences, College of Veterinary Medicine, Kansas State University, Manhattan, KS 66506. Affirmative Action/Equal Opportunity/Equal Access Institution.
POSTDOCTORAL RESEARCH/TEACHING FELLOWSHIPS
INTEGRATIVE NEUROBIOLOGY, ECOLOGY
BRYN MAWR COLLEGE

The Department of Biology and the Neural and Behavioral Systems Group have available two two-year postdoctoral fellowships for scientists who aspire to careers in which research and teaching are understood to be complementary and mutually supportive activities. One position requires a background in behavioral, physiological, or theoretical ecology, and the other a background in integrative neurobiology. Both Fellows will be expected to contribute to the intellectual and research activities of the Neural and Behavioral Systems Group, which is dedicated to trying to find and communicate productive ways to characterize complex biological systems at all levels of organization (cf. Experience 44, 460, 1986). Part of this activity may involve continuing research in the Fellow's own immediate area of interest. Fellows will also be expected to participate in the teaching programs of the Department, offering courses in their own area of expertise.

Applicants should send a letter of interest, curriculum vitae, and the names of three references to: Paul Grobstein, Department of Biology, Bryn Mawr College, Bryn Mawr, Pennsylvania 19010.

Bryn Mawr College is an Equal Opportunity/Affirmative Action employer. It encourages applications from women and members of minority groups, and seeks employees who both respect and appreciate human diversity. The post-doctoral fellowship program is a Bryn Mawr College Tide-Pool activity.

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Elsevier Science Publishing Co., Inc. is the U.S. company of the international Elsevier Science Publishers group, one of the world's largest scientific, technical and medical publishers.

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This program will provide a unique opportunity to learn all facets of scientific/technical/medical publishing leading to a position in editorial product development or marketing.

The successful candidate will have an advanced degree in science, ideally combined with relevant business qualifications, be able to demonstrate a strong commercial awareness, have good interpersonal skills and be internationally mobile. Post-university work experience is not essential.

Send letter describing your qualifications and interest along with your resume to:

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Gene Therapy

Genetic Therapy, Inc. has been involved, through its collaborators at the National Institutes of Health and at other major research institutes, in the first clinical testing of retroviral-mediated gene transfer and therapy. GTI is currently undergoing expansion of its research activities and has several positions available immediately for researchers at the postdoctoral, research scientist and group leader levels. Applicants should have a Ph.D. or M.D. degree and a demonstrated ability to conduct productive research in molecular and/or cell biology. Scientists with expertise and training in one or more of the following areas are particularly encouraged to apply: 1) Molecular approaches to the study of cardiovascular disease, 2) Molecular biology of virus-host cell interactions, 3) Gene transfer using viral and non-viral vectors, or 4) Tissue specific regulation of gene expression. GTI offers a stimulating work environment and competitive salaries and conditions. Applicants should send their resumes, and the names and addresses of 2 references to:

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Human Resources - MCB
19 Firstfield Road
Gaithersburg, MD 20878

GTI is an equal opportunity employer.

Group Leader
Molecular Core Laboratory

Genetic Therapy, Inc., a leading biotechnology company, is working with researchers at the National Institutes of Health and at academic medical centers to develop retroviral mediated and other gene transfer methods applicable to gene therapy. It is currently seeking an experienced individual to lead an active group of six scientists engaged in providing molecular support for different research groups investigating various aspects of human gene therapy. Currently, the molecular core lab provides PCR, automated DNA sequencing, Southern analysis, oligonucleotide synthesis and related services. GTI offers a stimulating and challenging research environment, with competitive salaries and benefits. Please send a resume, along with the names and addresses of two references to:

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Responsibilities will include the design and optimization of systems for expression of heterologous proteins by secretion from yeast and participation in the identification of new product opportunities in the areas of diabetes, hemostasis and wound repair.

Qualified applicants should possess a PhD and have industrial or post-doctoral experience in the field of protein secretion from yeast. Preference will be given to candidates with exposure to technologies relevant to high-level secretion of heterologous proteins or to molecular manipulation of the secretory pathway. The successful candidate should have good communication skills and a record of publications or patent applications in yeast genetics, protein secretion, or application of molecular biology to production of heterologous proteins.

ZymoGenetics offers intellectual challenge, state-of-the-art facilities, a strong connection with the University of Washington and an excellent benefits package. Interested applicants may send their CV/resume to: ZymoGenetics, Inc., Attn: Human Resources, #13N192, 4225 Roosevelt Way NE, Seattle, WA 98105.

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ZymoGenetics is an equal opportunity employer and encourages applications from women and minorities.

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Baxter Diagnostics Inc. is a worldwide leader in supplying innovative diagnostic reagents. Due to our recently formed Biotechnology Center located in Miami, Florida, we currently have the following opportunities available:

**PROTEIN CHEMIST**

Responsibilities will include purification and characterization of recombinant proteins, development of recovery processes for production of recombinant proteins and the production of clinical-grade protein following cGMP practices.

**MOLECULAR BIOLOGIST**

Responsibilities will be in the area of cloning and expression of heterologous genes in microbial, mammalian and baculovirus systems.

**DNA SEQUENCING**

Responsibilities will include the determination of nucleotide sequences of cloned genes via chemical or chain termination methods.

**FERMENTATION MICROBIOLOGY**

Responsibilities will include optimization and development of lab scale fermentation processes using recombinant microorganisms and assistance in fermentation scale-up efforts from lab to pilot plant scale.

**OLIGONUCLEOTIDE SYNTHESIS**

Responsibilities will include synthesis and purification of oligonucleotides to support the needs of the molecular biology group. The individual will be expected to develop strategies to synthesize and purify oligonucleotides containing modified bases.

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**DIVISION OF BIOLOGICAL SCIENCES**
**THE UNIVERSITY OF CHICAGO**

The Department of Molecular Genetics and Cell Biology, and the Department of Medicine of the Division of Biological Sciences of the University of Chicago invite applications for tenured (Professor, Associate Professor) or tenure track (Assistant Professor) positions in Virology. Successful applicants are expected to establish a strong program in basic research in Virology and to contribute to graduate education. Preference will be given to applicants with a Ph.D., M.D., or equivalent degrees with defined interests or established research programs in virology although other areas of research on human and animal viruses will be considered. Appointees will be housed in the Marjorie B. Kovler Viral Oncology Laboratories, a modern facility designed and dedicated to research in Virology. Adequate start up funding will be made available to successful applicants. At least two appointments will be made. The deadline for submission of applications for the first appointment is May 1, 1992. The deadline for submission of applications for the second appointment is October 1, 1992.

Applicants are invited to submit a curriculum vitae, a statement of research interests and the names of three referees to:

The Virology Search Committee
The University of Chicago
910 East 58th Street
Chicago, IL 60637

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We offer a highly competitive salary, an attractive benefits package and an excellent environment for exciting and high quality research in the healthcare area. For confidential consideration, please send your resume, indicating position of interest to: Director, Human Resources, Baxter Diagnostics Inc., P.O. Box 520672, Mail Station #348, Miami, FL 33152-0672. Equal Opportunity Employer. We conduct pre-employment drug screening.
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Preregistration by April 15, 1992, is required.
Call 301-468-6338.

MICROBIOLOGIST ANNOUNCEMENT
POST-DOCTORAL RESEARCH ASSOCIATE, MICROBIOLOGY (IMMUNOLOGY). Knipling-Bushland
U.S. Livestock Insects Research Laboratory, Kerrville, Texas.

The United States Department of Agriculture, Agricultural
Research Service is seeking a MICROBIOLOGIST
(IMMUNOLOGY) to study bovine immune responses
to insect pests of livestock. The incumbent will 1) deter-
mine immune mechanisms of cattle involved with host
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Successful candidate must have obtained a Ph.D. prior
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257-3566. Applications in response to this advertise-
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will be accepted until position is filled.
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U.S. Livestock Insects Laboratory
P.O. Box 232
Kerrville, TX 78029-0232
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HUMAN GENOME RESEARCH POSTDOCTORAL POSITION

Roswell Park Cancer Institute has postdoctoral positions available in several areas concerning the molecular genetics of human chromosome 11. A major focus is the physical mapping and organization of genes on chromosome 11 using a chromosome 11 YAC library. Analysis includes contig assembly, fluorescent in situ hybridization (FISH) and direct isolation of genes from YACs. Background must include training in molecular genetics. Roswell Park is a National Cancer Institute-designated comprehensive cancer center. The Department of Human Genetics is an active research department with extensive interactions with researchers in other departments with modern molecular biology programs. Buffalo, a Western New York city between Lakes Erie and Ontario, has the cultural amenities of a large city within minutes of a rural setting. Please send a curriculum vitae, a brief description of research interests and three references to: Thomas B. Shows, Ph.D., Chairman, Department of Human Genetics, Roswell Park Cancer Institute, Elm and Carlton Streets, Buffalo, New York 14263.
A Proposal Development Officer is needed in the Office of Research and Technology of the Medical College of Wisconsin. This individual will conduct background research and develop proposals for submission to foundations, industry, government agencies and other potential funding sources in support of interdisciplinary research, education and service programs at the Medical College.

Applicants should have a Ph.D. and/or M.D. degree or equivalent with experience in scientific writing and proposal development. Please address inquiries to:

William R. Hendee, Ph.D.
Senior Associate Dean for Research
Vice President for Technology
Medical College of Wisconsin
8701 Watertown Plank Rd.
Milwaukee, WI 53226
(414) 778-4402

TRIPLEX PHARMACEUTICAL CORPORATION, a rapidly growing, well financed, biotechnology company focused on the design and commercial development of triple helix forming therapeutics for human use, has immediate employment opportunities available for highly motivated senior and research scientists on its viral and cancer therapeutic research and development teams.

MOLECULAR BIOLOGIST
Opportunities are available for Ph.Ds with 2-5 years experience in the area of transcription control mechanisms including expertise using in vitro transcription systems and who have a proven publication record. The positions will require use of in vitro systems to determine activity and mechanism of action in triple helix forming oligonucleotides.

VIROLOGIST
Opportunities are available for Ph.Ds with 2-5 years experience in molecular virology. Responsibilities will include the design and development of methodologies for screening oligonucleotides directed at HSV and CMV. Additional responsibility will include studying the molecular mechanism and action of triple helix forming oligonucleotides. [Experience in drug development, in the biotechnology or pharmaceutical industry is preferred.]

BIOCHEMIST
An opportunity is available for a Ph.D with 1-3 years experience in the study of nucleic acids interactions. Experience with novel bases and computer modelling of nucleic acids would be an advantage. Primary responsibility will be designing and testing oligonucleotide modifications that improve triple helix formation.

OLIGONUCLEOTIDE CHEMISTS
Opportunities are available for Ph.Ds in Organic or Biochemistry with 3-5 years of experience in solid and solution phase synthesis of oligonucleotides. Preference will be given to candidates who demonstrate proven experience with large scale methodologies and a working knowledge of GMP regulations. Responsibilities will include initiating and implementing small and large scale oligonucleotide synthesis and purification as well as developing novel chemistries.

TRIPLEX is located in an attractive community north of Houston offering access to research centers such as Baylor College of Medicine, Texas Medical Center, Rice University, Texas A&M and the University of Houston. We offer competitive salaries and benefits, including equity participation, as well as opportunities for publication and rapid career growth in an exciting research program. For immediate consideration send C.V. to:

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Director of Administration
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Fax: 713/363-1168
POSITIONS OPEN

FACTORY RESEARCH POSITIONS

Three full-time senior level faculty research positions available for experienced basic scientists with expertise in either CARDIOVASCULAR PHARMACOLOGY, CELL BIOLOGY or VIROLOGY/MOLECULAR BIOLOGY to participate in programs of hypertension, diabetes, cardiovascular and virology research, respectively. Applicants will become part of a research team consisting of pharmacologists, pharmacokineticists and medical chemists. Successes must have the Ph.D. degree and should be capable of independent research. Salaries: competitive. Women and minorities are encouraged to apply. Applications must include a curriculum vitae and proof of authority to work permanently in the United States. Send curriculum vitae and references by 31 March 1992 to: Barbara Hayes, Ph.D., Chairperson, Division of Pharmaceutical Sciences, College of Pharmacy and Health Sciences, Texas Southern University (TSU), 3100 Cleburne, Houston, TX 77004. TSU is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION, MAIZE MOLECULAR MARKERS

Position available immediately in molecular marker mapping of genomic regions controlling expression of selectable and/or non-selectable marker traits. Background in plant breeding, quantitative genetics, biology, or molecular genetics will be considered. Send curriculum vitae, names and telephone numbers of four references to: T. R. Rochester, Department of Agronomy, University of Illinois, Urbana, IL 61801. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN MOLECULAR GENETICS of the opportunistic pathogen T.Navigator gordii. Position available immediately to identify and clone resistant drug resistance markers for development of DNA transformation. Position requires Ph.D. research experience in molecular biology. Familiarity with yeast and/or bacterial expression vectors desirable. Send curriculum vitae, summary of research experience, and names and numbers to: Dr. L. David Sibley, Ph.D., Department of Molecular Microbiology, Box 8220, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available immediately to study the biochemistry and molecular biology of mammalian sulfur and selenium methionyltransferases. Candidates must have a Ph.D. with training and experience in biochemistry, molecular biology, toxicology, and/or metabolism. Send curriculum vitae with nane and number of three references to: Dr. Jerald Hoffmann, Department of Biochemistry, School of Medicine, University of Louisville, Louisville, KY 40292. Telephone: 502-588-5223; FAX: 502-588-6222.

POSTDOCTORAL POSITION GENETICS AND MOLECULAR BIOLOGY HAVARD

Available immediately to study illegitimate recombination and restriction enzyme mediated recombination in Saccharomyces cerevisiae [PNAS 88, 7585 (1991)]. Molecular biology and microbiology experience required. Send curriculum vitae and names of three references to: Dr. Robert H. Schiestl, Department of Molecular and Cellular Toxicology, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.

POSTDOCTORAL FELLOWSHIP

The Emory University Alzheimer’s Disease Center Core is recruiting a Ph.D. in neurochemistry or neuropharmacology to study the neurobiology and pathogenesis of Alzheimer’s disease. A background in neurobiology/neuropharmacology with experience in molecular biology and/or biotechnology is desirable. Available 1 July 1992 for up to 2 years. Salary commensurate with education and experience. Send cover letter applying for position, research interests, curriculum vitae and names of three references to: Dr. Suzanne Mirra, Department of Pathology and Laboratory Medicine, VA Medical Center (1.13), 1670 Clairmont Road, Decatur, GA 30033. Emory University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

POSITIONS OPEN

POSTDOCTORAL POSITION

Dana-Farber Cancer Institute postdoctoral position available immediately to investigate the interaction between retroviruses and cells and organoids. Predoctoral experience in molecular biology essential; working knowledge of immunology is highly desirable. Send curriculum vitae and names of three references to: Dr. Ruth Ruprecht, Chief, Laboratory of Viral Pathogenesis, Dana-Farber Cancer Institute, 45 Binney St., Boston, MA 02115. The Dana-Farber Cancer Institute is an affiliate of Harvard Medical School and is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE UNIVERSITY OF IOWA COLLEGE OF MEDICINE CFTR BIOLOGY, STRUCTURE, AND FUNCTION

Two positions are available to study the cell biology, structure, and function of CFTR. CFTR is the protein which is mutated in the genetic disease, cystic fibrosis. Work will also focus on the regulation of cystic fibrosis. Positions will open in the summer and fall of 1992. Skills in cellular and molecular biology or patch-clamp electrophysiology are desirable. Send curriculum vitae with references to: Michael J. Welsh, M.D., University of Iowa College of Medicine, 500 EMBR, Iowa City, IA 52242. An Equal Opportunity Employer.

POSTDOCTORAL POSITION at Massachusetts Institute of Technology (MIT) available immediately to work on stability and stabilization of therapeutic proteins [see: Proc. Nat. Acad. Sci. USA 88, 9377 (1991)]. Strong background in protein biochemistry is required. Please send applications to: Professor Alexander M. Klippel, Department of Chemistry, Room 16-209, MIT, Cambridge, MA 02139.

POSTDOCTORAL POSITION UNIVERSITY OF PENNSYLVANIA A POSTDOCTORAL ASSOCIATE position is available for an individual interested in the study of developmental control of eukaryotic gene expression. Specific systems under study include the human globin and human growth hormone gene clusters. In vitro, cell-based, and transgenic systems are being utilized to analyze both pre- and post-transcriptional controls. Qualified candidates should possess a Ph.D. in molecular biology or genetics. Please send curriculum vitae and the names of three references to: Dr. Stephen A. Liebhaber, Department of Genetics, University of Pennsylvania School of Medicine, 422 Curie Boulevard, Philadelphia, PA 19104-6145. We are an Equal Opportunity Employer.

POSTDOCTORAL POSITION VASCULAR MICROSURGICAL

Vascular microsurgeon to perform heterotopic vascularized cardiac transplants in mice and rats, and coronary surgery in dogs. Applicant will monitor function of transplanted hearts, obtain electrophysiologic and hemodynamic data in dogs subjected to coronary artery obstruction and conclusion. Applicant will investigate effects of pharmacologic agents on malignant ventricular arrhythmias. Must have M.S., Ph.D. or M.D. degree, with cardiac surgery as a major area of study. Experience required in microsurgical surgery. Forty hours per week, Monday through Friday: $2,600 per year. Send resume to: Dr. Peter Brantner, Department of Surgery, Lake City Regional Hospital, 14147-0750, Job Order #2826016.

POSTDOCTORAL FELLOWSHIPS OR STAFF APPOINTMENTS to investigate the molecular, structural, and functional aspects of the coagulation, cytokine and adhesion classes. Candidates should have demonstrated research productivity and experience in relevant topics. It is expected that candidates for staff appointments will have demonstrated success in competitive research funding. Forward curriculum vitae to: Dr. Thomas Edgington, The Scripps Research Institute, 10666 North Torrey Pines Road, La Jolla, CA 92037. An Equal Opportunity Employer, we encourage minority application.

POSTDOCTORAL FELLOWSHIPS

The UNC Lineberger Comprehensive Cancer Center of the University of North Carolina at Chapel Hill will have openings in 1992-93 for persons completing graduate training. Applicants are desired in basic research in tumor virology, carcinogenesis, molecular therapeutics, cancer cell biology, genetics, and tumor virology. Training in a relevant DNA technology, gene expression, DNA replication, mutagenesis, regulation of cellular proliferation, growth factors, molecular immunology, metabolism of cancer, and combined programs. Unique training resources and core facilities are housed in the NCI-designated UNC Lineberger Comprehensive Cancer Center. Preceptors are: Jane Aziskan, Steven Bachenheimer, Albert Baldwin, Kevin Burridge, Stephen Chaney, John Cidlowski, David Clemmons, Marla Cordeiro-Stone, H. Shelton Elford, Robert Engel, Frank French, Don Gabriel, Jack Griffith, Stephen Haskil, Geoffrey Haughton, Brian Herman, Eng-Shang Huang, Clyde Hutchinson, Kenneth Jacobson, Mary Ellen Jones, Rudolph Juliano, David Kaufman, Shannon Kelley, Ryszard Kole, Anthony Leand, David Lee, Stanley Lemon, Edison Liu, Patricia Manes, William Marriott, Beverly Mitchell, Howard Ozer, Joseph Pagano, Nancy Raab-Traub, James Raleigh, Aitz Sancar, Ralph Snodgrass, Ronald Swanson, Ronald Thurman, Jenny Ting, Thye Thry, Ruchi Topal, Judith Van Sun, Jean-Michel Vos, Bernard Westman and Edward White. Candidates must be U.S. citizens or permanent residents. Send for brochure listing faculty and apply with curriculum vitae, three letters of recommendation, and recent research interests and graduate school records to: Joseph S. Pagano, M.D., Director, CB# 7295, UNC Lineberg Comprehensive Cancer Center, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7295. UNC’s Comprehensive Cancer Center is an Affirmative Action/Equal Opportunity Employer. Minority applicants are encouraged voluntarily to identify themselves.

POSTDOCTORAL FELLOW POSITION IN NEUROIMMUNOLOGY available for research on the alteration of nerve conduction by cellular and antibody-mediated immune function. Experiments utilize electrophysiological, optical, and ultrastructural approaches to analysis at the cellular and molecular level. Several inflammatory and demyelinating systems are explored. Candidates should have a Ph.D. or M.D. in at least one relevant area. Send curriculum vitae and the names of three references to: Dr. Peter Shrago, Department of Physiology, University of Rochester Medical Center, Rochester, NY 14642-4242. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE Position available to study molecular biology of anti-oxidant enzymes, particularly superoxide dismutase, in cancer cells. Experience in cell culture, transfection, and hybridization desirable. Send curriculum vitae and names of three references to: Dr. Larry Oüberly, Radiation Research Laboratory, 14 Medical Laboratories, The University of Iowa, Iowa City, IA 52242; FAX: 319-335-8049. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE The research includes determination of the structure, three-dimensional conformation and dynamics of complex carbohydrates of glycoproteins and glycolipids. Methods will emphasize computer molecular modeling and molecular dynamics simulation combined with spectroscopy and electron microscopy. The position requires familiarity with multidimensional techniques. Other methods include circular dichroism spectroscopy along with high-pressure liquid chromatography for isolation and characterization of oligosaccharides. Candidates should send curriculum vitae and three letters of recommendation to: C. Allen Bush, Department of Chemistry and Biochemistry, University of Maryland Baltimore County (UMBC), Baltimore, MD 21228. UMBC is an Equal Opportunity/ Affirmative Action Employer. Women, minorities, and disabled candidates are especially encouraged. Applications will be received until a suitable candidate is found.
The recent opening of the new Glaxo Inc. Giroiami Research Institute, located in Research Triangle Park, NC, represents Glaxo’s commitment in the pharmaceutical industry to the discovery of drugs for unmet patient needs. Scientists engaged in Glaxo’s expanding research and development programs at the Center have a premier facility in which to work. The following opportunity is now available within our Molecular Biochemistry Department.

SECTION HEAD
CELLULAR ENZYMOLOGY

This position requires a minimum of 5 years experience conducting independent research. A strong interest in cellular metabolism, and research experience in signal transduction mechanisms, gene regulation, protein processing, or protein tracking are preferred. Candidate must possess the ability to effectively coordinate interactions within multidisciplinary teams across the therapeutic areas of cancer, inflammation, and metabolic disease.

Join Glaxo and enjoy an excellent salary, flexible benefits, an on-site recreation and fitness center, a spirit of enthusiasm and teamwork, and outstanding opportunities for career satisfaction. Equally appealing is our world famous scientific, industrial and academic community in Research Triangle Park, NC. Send your resume and salary history to: Human Resources Department, Job # 9128146-SC, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/H/V.

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Research Scientist
Develop in situ hybridization based assays for the detection of chromosome abnormalities in pre-implantation embryos. Requires ability to recover single cells while leaving embryo undamaged and optimization of assays specifically for genetic disorders. Requires a Ph.D. with experience in in situ hybridization, pre-implantation genetics, and embryo biopsy and analysis.

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Develop and test assays for clinical introduction, complete clinical trials, and transfer technology to our clinical laboratories. Involves close interaction with both research group and the laboratories. Will also identify and assess new methodologies and technological opportunities. Requires a Ph.D. or equivalent and 5 years’ experience in DNA assay development. Must have strong background in molecular biology techniques (including FISH and PCR), QA/QC, and project/people management. Genetics experience and clinical lab or industry background preferred.

Research Associates - in situ Hybridization
Support development and technology transfer of in situ hybridization based diagnostic assays for chromosomal defects. Involves close interaction with basic research scientists and clinical laboratories, completion of clinical trials, and technology transfer to our service lab. Requires B.S./M.S. with experience in molecular biology and in situ hybridization.

Research Associates - FISH
Participate in the development of enhanced fluorescent in situ hybridization technology for use in prenatal diagnosis of maternal blood. Involves optimization of FISH parameters, sample preparation and analysis. Requires M.S./B.S. degree with strong experience in molecular biology and FISH. Cytogenetics background would also be useful.

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A postdoctoral position is available for an individual with a Ph.D. in neurophysiology, neurobiology, biochemistry, biophysics, bioengineering, or a related field. Current research projects involve the study of sensory transduction mechanisms in the eye. The research employs a combination of electrophysiological, pharmacological, and bioengineering approaches to study light mechanisms of cold, mechanical and phototopic transduction. The position is supported up to $30,000 depending on experience. Applicants should send curriculum vitae and the names of three individuals who may be contacted for references to: Dr. Darrell T. Roder, Department of Ophthalmology, Eye Center, 2655 Pearcy Nash Drive, Raleigh, NC 27695-7622. North Carolina State University is an Equal Opportunity/Affirmative Action Employer.

THREE POSTDOCTORAL RESEARCH POSITIONS available in mechanisms of carcinogenesis of aromatic hydrocarbons and estrogens. Synthetic bioorganic chemistry for the design and synthesis, identify and quantify biologically formed DNA adducts. Biochemistry/molecular biology to study DNA adducts and sequence analysis of adducted mRNAs. Competitive salary. Send curriculum vitae with names of three references to: Professor Ercole Cavalieri, Eppley Cancer Institute, University of Nebraska, 1120 North 24th Street, Omaha, NE 68198-6805. Affirmative Action/Affirmative Employment Opportunity.

RESEARCH ASSISTANT II. Independently plan, prepare and conduct experiments using ultrasound for analysis of kidney tubule segments; collect and analyze data. Present reports to lab group and research conferences. Assist in preparing manuscripts and research proposals. Assist in teaching methods to postdoctoral fellows and graduate students. Responsible for radiation safety, animal use and hazardous materials compliance. M.S. or M.D. (or M.D. equivalent) in medicine, physiology or pharmacology with 2 years of employment or medical residency experience to work and/or training in research to include clinical or laboratory research in nephrology and endocrinology. Experience in small animal surgery, light microscopy and immunofluorescence antibody techniques. From 8:30 a.m. to 5:00 p.m. Salary: $24,000 per calendar year. Contact: Sandra Starnes, Alabama State Employment Service, 446 Highland Avenue South Birmingham, AL 35222, J. # AL0228721.

RESEARCH ASSOCIATE. The Dave Garrow Laboratory for the Study of Depression at the Institute of Pennsylvania Hospital invites applications for a position in an ongoing longitudinal study of recurrent depression and bipolar illness. Candidates must have a Ph.D. in clinical psychology or a Master's in psychology with a demonstrated program and must have completed an APA-approved predoctoral internship. A formal supervised postdoctoral fellowship year is also required in an APA-approved training setting. Candidates must be eligible in Pennsylvania. Applicants must have research experience examining predictive models of recurrent illness in medical and/or psychiatric populations as documented by published or completed dissertation research. Knowledge of statistical and methodological issues related to prediction research in psychology and clinical skills are needed. Experience in conducting comprehensive diagnostic evaluations of psychiatric illness utilizing semi-structured interviews (i.e., SCID), psychophysiological recordings, questionnaires, record reviews and personality evaluations. Comprehensive psychological testing, including standardized objective and projective tests, would be a plus. Excellent salary and benefits package. Qualified candidate should submit a cv and at least three letters of recommendation to: Dr. Alan M. Grodenberg, Director, The Dave Garrow Laboratory for the Study of Depression, The Institute of Pennsylvania Hospital, 111 North 49th Street, Philadelphia, PA 19139. Equal Opportunity Employer.

NATURAL RESOURCE SCIENTIST

Argonne National Laboratory has a position available for a natural resource scientist whose primary training and background is in the application of remote sensing and GIS to the study of natural systems. The person selected will apply these skills in environmental assessment studies and develop new methodologies and tools for modeling, GIS and remote sensing. A computer laboratory with ERDAS, ARC/INFO, GRASS and other GIS software will be available to the selected candidate. A Ph.D. in ecology, natural resource management or related discipline is required. Candidates must have strong computer programming skills and a record of open literature publications and funded research. Applicants should submit their curriculum vitae, the name and address of at least three references, a short statement of research interests by 20 April 1992 to: Susan M. Walker, Employment and Placement, Box EID-94236-94237-55, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, IL 60439. Argonne is an Equal Opportunity/Affirmative Action Employer.
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Successful candidate will work on self-splicing introns in *Archaea.* Candidates are required to have experience in cloning, DNA sequencing and RNA techniques.

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**Product Manager**—To fill a position in our production facility. Requires a B.S., or M.S., with experience in protein purification.

Candidates please submit curriculum vitae with three references to:

New England Biolabs, Inc.
Human Resources
32 Tozer Road
Beverly, MA 01915-5510

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RESEARCH ASSISTANTS: Penn State University invites applications for two research assistant positions. Applicants must have a Ph.D. in chemistry. The first position encompasses organometallic chemistry and catalysis and requires experience in hydrocarbon oxidation and functionalization, synthesis and characterization of air-sensitive metal compounds, kinetic and mechanistic studies, running catalytic reactions under high pressures using toxic gases, modern spectroscopic methods including NMR, IR, UV-Vis, GC, GC-MS, and X-ray, glove-box and vacuum-line techniques, and computer modeling. The second position encompasses organometallic and polymer chemistry, and catalysis and requires experience in organometallic chemistry of carbon monoxide and olefins, chemistry of conducting polymers, synthesis and chemical modification of polymers, synthesis and characterization of air-sensitive metal compounds, kinetic and mechanistic studies, running catalytic reactions under high pressures using toxic gases, modern spectroscopic methods including NMR, IR, UV-Vis, GC, GC-MS, and HPLC/GPC, glove-box and vacuum-line techniques, and computer modeling. Both positions require record of relevant publications in refereed journals and demonstrated research ability. Salary range: $22,000-$25,000, plus standard university benefits package. Work location: University Park, PA. Application deadline: April 20, 1992. Send application, resume, copies of publications, and two letters of recommendation to: Dr. A. Sen, Department of Chemistry, The Pennsylvania State University, 152 Davey Lab, Box SCI, University Park, PA 16802. An Affirmative Action/Equal Opportunity Employer. Women and Minorities are encouraged to apply.
POSITIONS OPEN

RESEARCH PLANT PATHOLOGIST/MICROBIologist: USDA-ARS, Bent and Cox Consulting Research Unit, located on the Michigan State University campus, East Lansing, Michigan, is seeking an individual to conduct, develop and direct a basic and/or cooperative applied program of microbiological and pathological studies relating to the foliar pathogens of dry edible beans. Incumbent will apply a molecular genetic approach to develop a better understanding of host-parasite interaction and host specificity, leading to new means of solving problems in disease epidemiology and disease control through varietal selection and manipulation. The research assignment requires fully professional knowledge of plant pathology, basic botany, molecular biology, microbiology, and genetics. Candidates must possess 1) a degree in plant pathology, mycology, or a closely related discipline with experience in fungicide development, and 2) experience in the conduct of research and teaching responsibilities. The position is located in East Lansing, Michigan, and the initial term of appointment is for 2 years. Annual salary range: $28,000 to $36,000. Application deadline is April 15, 1992. Send resume to Dr. Maxine Bennett, Director, Bent and Cox Consulting Research Unit, 1501 Farm Rd. SE, East Lansing, MI 48823-1285.

POSITIONS OPEN

PARKINSON’S DISEASE RESEARCHER. Salary: $28,000 per year. Research mechanism of MPTP-induced parkinsonism in animal and cell culture models by performing biochemical and pathological methods and studies and epidemiological studies. Ph.D. in neuroscience. Six month to 1 year of experience. Experience establishing pathological animal and cell culture models, performing HPLC and chemiluminescence techniques, dissecting mouse brain, dissecting human brain, using mouse and rat tissue and brains, and using high-power microwave device. Job site/interview: San Jose, California. Send ad with resume to: National Institute of Environmental Health Sciences, 4900 Rockville Ave., P.O. Box 12232, Sacramento, CA 95823-0560 no later than 4 April 1992.

COURSES AND TRAINING

HYPERTENSION SUMMER SCHOOL
13 to 18 September 1992, Château de Maflfers, France. Co-sponsored by the International Union of Pharmacology (IUPHAR); The World Hypertension League (WHL); The TRANSGENEUR Program of the European Community; The Collège de France/IN-SERM, Paris; and the Institute for High Blood Pressure Research, Heidelberg. This is a 1-week residential course in English for recent M.D. and Ph.D. graduates, setting a career in clinical and experimental high blood pressure research. Topic will include: genetics of human and experimental hypertension; vascular endothelium; sympathetic mechanisms in hypertension; antihypertensive system; clinical pharmacology of hypertension. Maximum class size will be 20 students. Faculty: F. Albenc-Gelas, Paris; P. Corvol, Paris; D. Ganten, Berlin; M. Lachap, Paris; J. Ménard, Paris; J. B. Michel, Paris; J. Mullins, Edinburgh; M. Paul, Heidelberg; J. Reid, Glasgow; M. Safar, Paris; F. Soubrier, Paris; U. Unger, Heidelberg. To apply please send by 15 May resume vitae with publication list, two letters of reference and a note indicating your scientific and personal interests and expectations from the course. Boston University Summer School, German Institute for High Blood Pressure Research, Wielandstrasse 26, D-6900 Heidelberg, Germany, Telephone: +49-6221-609999, FAX: +49-6221-420248. Course fee, including materials and accommodation is 200.00 German Marks. A number of educational grants are available and students in need are encouraged to apply informally. The summer school is supported by an educational grant from The Parke-Davis Conference Series.

MEETINGS

ENVIRONMENTAL APPLICATIONS OF GENOMIC PROBES WORKSHOP
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THIRD ANNUAL ENVIRONMENTAL GENOME PROBE WORKSHOP. Intensive 3-week lecture and laboratory course whose purpose is to provide a basic exposure to the techniques of molecular biology, followed by selected environmental applications. A background in molecular biology is not required. Inquiries and applications to: Center for Microbial Ecology, 440 Plant and Soil Science Building, Michigan State University, East Lansing, MI 48824-1325. Telephone: 517-353-9021.

ANNOUNCEMENTS

BURROUGHS WELLCOME FUND AWARDS
The Burroughs Wellcome Fund offers two 5-year, $350,000 scholar awards for researchers through the Immunopharmacology of Allergic Diseases and Drug Design and Discovery Programs. Deadline is 1 April 1992. For application guidelines, contact: The Burroughs Wellcome Fund, 3030 Cornelius Road, Research Triangle Park, NC 27709. Telephone: 919-248-4136; FAX: 919-248-3052. The B. W. Fund is a nonprofit foundation supported by Burroughs Wellcome Co, a research-based pharmaceutical company.

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