POSITIONS OPEN
ANATOMY AND PHYSIOLOGY LABORATORY INSTRUCTOR
One full-time laboratory instructor with responsibilities for the above areas. Requirements: Master's/Ph.D. and demonstrated teaching ability. Send detailed curriculum vitae, transcripts, and three letters of reference to: Plant Morphology and Biochemistry, University of North Carolina at Chapel Hill, NC 27599. Minority and female scientists are encouraged to apply. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN
ASSISTANT PROFESSOR
DEPARTMENT OF BIOCHEMISTRY
UNIVERSITY OF NORTH CAROLINA
AT CHAPEL HILL

The Department of Biochemistry invites applications for tenure-track positions available as of 1 July 1990 for an ASSISTANT PROFESSOR. Qualified applicants are expected to develop an independent research program and participate in graduate teaching. The department is interested in candidates who have demonstrated expertise in combining genetic methods with molecular and biophysical techniques. Preference will be given to individuals with experience in expression of cloned genes and signal transduction. Applicants should submit curriculum vitae, list of publications including representative reprints, the names and addresses of at least three references, and a summary of research plans before 1 May 1990 to: Dr. Michael Caplow, Search Committee Chairperson, Department of Biochemistry, School of Medicine, University of North Carolina, Chapel Hill, NC 27599–7260. Minority and female scientists are encouraged to apply. Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR OF WILDLIFE SCIENCE

The Department of Wildlife and Range Sciences, University of Florida, invites applications for a 12-month, tenure-track, research/teaching (70%/30%) position. Teaching includes undergraduate/graduate courses in conservation biology, wildlife management, and tropical wildlife ecology. Applicants must have a Ph.D. in wildlife ecology or closely related field, an active research interest in biological conservation, and a strong background in vertebrate ecology. Experience in Latin America preferred. Salary commensurate with qualifications and experience. Applicants should submit a letter of application, curriculum vitae, transcripts of college work, and three letters of recommendation by 30 March 1990 to: Dr. Michael Sunge, Department of Wildlife and Range Sciences, 118 Natural-Sciences Hall, University of Florida, Gainesville, FL 32611. Refer to: Position Announcement #911000.

ASSISTANT RESEARCH PROFESSOR. Available immediately to teach and conduct research in molecular virology and immunology. Candidates must have a Ph.D. degree in science, with major in immunology and at least 3 years of training in in vitro regulation of immune responses against pathogens. Teach at medical school and also conduct research in developing in vitro vaccine. Salary commensurate with training and experience. Send curriculum vitae and names of three references immediately to: Dr. C. Bona, Microbiology, Box 1124, Mount Sinai School of Medicine, One Gustave Levy Place, New York, NY 10029.

ST. LOUIS UNIVERSITY SCHOOL OF MEDICINE

TENURE-TRACK APPOINTMENT IN PHARMACOLOGY

The Department of Pharmacology at St. Louis University School of Medicine is seeking qualified applicants for a tenure-track appointment in pharmacology at the ASSISTANT PROFESSOR OR ASSOCIATE PROFESSOR level available 1 July 1990. On the assistant professor level, the candidate should have a period of productive postdoctoral training; will be expected to develop a strong, independent fundable research program, and participate in medical and graduate student teaching. Preference will be given to individuals with demonstrated experience in the application of molecular biology to research in pharmacology, carbohydrate biochemistry, or endocrine pharmacology. Interested persons should send curriculum vitae, grant of support and bibliography, three letters of recommendation, and a brief description of future research interests.

Dr. Thomas C. Westfall
Professor and Chairman
Department of Pharmacology
St. Louis University School of Medicine
1402 South Grand Boulevard
St. Louis, MO 63104

ST. LOUIS UNIVERSITY is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

INSTRUCTOR. The position is available immediately for a 9-month period. Duties include teaching undergraduate courses, supervising research, and providing technical assistance. Qualifications: Ph.D. required. Salary competitive. Submit a letter of application, curriculum vitae, and names of three references to: Mr. W. Smith, Department of Oceanography, University of Washington, Seattle, WA 98195.

BIOLOGICAL OCEANOGRAPHER. The position is available immediately and involves the design and implementation of oceanographic research projects. Qualifications: Ph.D. in oceanography or a related field required. Salary: $30,000-$40,000. Applications should be submitted to: Dr. J. L. Smith, Department of Oceanography, University of California, Santa Cruz, CA 95060.
APPLICATIONS 

WICHITA STATE UNIVERSITY (WSU)

Applications and nominations are invited for the position of Director of the Department of Biochemistry. The department offers undergraduate and graduate programs leading to the Ph.D. degree. The successful candidate will have an active research program, an excellent record in teaching at a Ph.D. granting department, administrative experience, and demonstrated leadership ability. The chair will participate in and provide effective leadership toward obtaining new support, teaching excellence, and continued program development. Submit curriculum vitae, statements of research interests, administrative goals, and educational philosophy, and provide names and addresses of three references to: Dr. Melvin Zandler, Search Committee Chair, Department of Chemistry, Wichita State University, Wichita, KS 67208. Application deadline is 15 March 1990 and the 15th of each succeeding month until the position is filled. WSU is an Equal Opportunity Employer and specifically invites applications from women and minorities.

The University of Calgary

Faculty Positions in Biological Sciences

The University of Calgary Department of Biological Sciences invites applications for faculty positions at the Assistant Professor level. Successful applicants will become participating members of one of the following multidisciplinary research groups:

- **Cell Cycle Regulation Research Group** focuses on molecular regulation of the cell cycle. Applications are invited from individuals investigating oncogenes, proto-oncogenes, anti-oncogenes, growth factors, and cell division cycle (cdc) homologues in development and cancer.

- **Regulatory Mechanisms Research Group** focuses on basic physiological and endocrine control mechanisms, including neural and neuroendocrine control of reproduction and circulation, the regulation of force development in muscles, and the physiological basis for environmental compensations. Applications are invited from individuals specializing in Pathophysiology.

- **Musculo-Skeletal Research Group** focuses on molecular interactions and physiological mechanisms of muscle development and function. Applications are invited from individuals in the field of Biomechanics.

- **Nuclear Magnetic Resonance Centre (NMR)** is equipped with two state-of-the-art high field NMR Spectrometers. Applications are invited from individuals investigating protein, nucleic acid, or muscle function to complement an active in vivo NMR research program.

- **Genetic Engineering Research Group** conducts studies on gene cloning, sequencing, site-directed mutagenesis, and regulation of gene expression in both prokaryotes and eukaryotes. Applications are invited from individuals in this general area of investigation.

Qualifications: PhD and at least two years postdoctoral experience; demonstrated ability to conduct productive and independent medically-related research of high quality.

Successful candidates will be nominated for Scholarships awarded on a competitive basis by The Alberta Heritage Foundation for Medical Research. The Foundation provides a salary for five years (renewable) and establishment funding. Establishment support will cover the cost of setting up a new laboratory with both major and minor equipment, and operating funds for two years. Remuneration will be based on the salary scale at The University of Calgary relative to training and experience. Successful candidates will have 75% of their time protected for research. Limited teaching duties and participation in departmental affairs is required.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary has an Employment Equity Program and encourages applications from all qualified candidates, including women and Aboriginal people, visible minorities, and people with disabilities. Applicants should send their curriculum vitae, a synopsis of research objectives, and arrange for three letters of reference to be sent before April 15, 1990 to:

**Chairman, Scholarship and Fellowship Review Committee**
Department of Biological Sciences
The University of Calgary
2500 University Drive N.W.
Calgary, Alberta, Canada T2N 1N4
Facsimile: (403) 289-9311
Vanderbilt University  
Department of Molecular Biology  

CHAIR  
The College of Arts and Science of Vanderbilt University invites applications and nominations for the position of Chair of the Department of Molecular Biology. We seek an accomplished individual capable of guiding an established group of scientists who have a broad range of interests.

The Department of Molecular Biology has 15 currently authorized tenured and tenure-track faculty, 31 graduate students and 60 undergraduate majors. It is amply housed and funded. Applications, which should include a curriculum vitae and the names of four references, or letters of nomination should be sent to:

Chair, Search Committee, Department of Molecular Biology, Box 1820, Station B, Vanderbilt University, Nashville, Tennessee 37235

Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

Assistant Professor  
Tenure track position available for CELL BIOLOGIST. Preferred areas of research: image analysis of intercellular transport, genetics of protein sorting, in-vitro protein transport, molecular/cell biology of surface receptors, membrane cytoskeleton interactions, cell-matrix interactions, lipid sorting.

Salary commensurate with training and experience. Candidates are expected to participate in one team-taught course in the Medical College and in the training of graduate students in cell biology, genetics or developmental biology. To apply, send CV, three letters of recommendation and a brief summary of research interests before May 15, 1990, to: Dr. Enrique Rodriguez-Boutan, Chairman, Cell Biology Search Committee, Department of Cell Biology and Anatomy, Cornell University Medical College, 1300 York Avenue, New York, New York 10021. EEO/A/A/M/F/H/V.

DIRECTOR  
SEALY CENTER  
FOR MOLECULAR CARDIOLOGY  
UNIVERSITY OF TEXAS MEDICAL BRANCH  
GALVESTON, TEXAS

The University of Texas Medical Branch (UTMB) invites applications and nominations for the position of director of the Molecular Cardiology Center. Candidates must be highly qualified individuals with an internationally recognized record of scholarly accomplishment. The position offers an excellent opportunity to develop an international, first-rate, basic cardiovascular research center.

Applications or nominations should include curriculum vitae. Address all correspondence to the chairman of the search committee for molecular cardiology:

Luis Reuss, M.D., Chairman  
Department of Physiology and Biophysics  
The University of Texas Medical Branch  
Galveston, TX 77550

The University of Texas Medical Branch is an Equal Opportunity, M/F/H/V/Affirmative Action Employer. UTMB hires only individuals authorized to work in the United States.

ENGINEERING MANAGER  
Manage development of hybrid manufacturing processes in thin film, cofire, and Rf areas. Support industry/military coordination of military standard fabrication. Must have Ph.D. in physics and 7 years of experience as a supervisor, advanced engineering. Must have microelectronics industry background. Salary: $70,000 per year; interview and job in Los Angeles, California; 40 hours per week. Send this ad and your résumé to: Job# WS 13001, P.O. Box 9950, Sacramento, CA 95823-0950 no later than April 1990.

TEAM SCIENCE AND TECHNOLOGY RESEARCH PROGRAM DIRECTOR  

The National Research Council (NRC) is seeking a program director for its Comparative and Evolutionary Biology Board. Responsibilities include designing projects, identifying national experts for project committees, conducting background research, providing analytical support for ongoing projects, maintaining liaison with the computer science community, and drafting project documents. An advanced degree in computer science, electrical engineering, public policy, or a related field and at least 4 years of computer-related technology assessment, applications, and development—including research or management—experience is desired. Ability to communicate technical concepts to a nontechnical audience and familiarity with science and technology policy issues also required. We offer a salary commensurate with experience and an exceptional benefits package. Please send resume in confidence to: NRC/CSTB, H.A. 560 (MK), 2101 Constitution Avenue, N.W., Washington, DC 20418. Equal Opportunity Employer.

CURATOR  
U.S. DEPARTMENT OF AGRICULTURE (USDA)  

NEMATELOCOLLECTION


WETLAND ECologists  
Ebasco Environmental’s Northern New Jersey ofﬁce is seeking several wetland ecologists for entry and staff level positions with knowledge of field delineation of wetlands using multiple-parameter methodology, design of freshwater wetland mitigation plans, and vegetation and water quality compliance experience. Good oral and written communication skills essential, advanced degree preferred. Ebasco offers excellent growth opportunities as well as competitive salaries and a comprehensive benefits package. Please send résumé, including salary requirements, to: T. A. Caporo, Ebasco Services, Inc., 160 Chubb Avenue, Lyndhurst, NJ 07071.
**Clinical Research Associates**

**Where Research Is The Driving Force,**

**There’s Never a Shortage Of Exciting New Discoveries.**

IMODIUM®, NIZORAL®, SUFENTA®, HISMANAL®, ALFENTA®: These are just some of the important new drugs that have been developed here at Janssen Research Foundation. And we continue to make new discoveries at an extraordinary pace. In fact, we’re the world’s most prolific discoverer of new therapeutic agents.

We recognize that our success is based upon the vital contribution made by every member of our research team, including our Clinical Research Associates. From writing protocols to training investigators, the work you’ll do here as a Janssen CRA is critical.

And you’ll be rewarded accordingly.

Working for a member of the Johnson & Johnson Family of Companies, you’ll enjoy a competitive salary and a comprehensive benefits package including our on-site total health facility, the Live For Life Wellness Center. And with the frequency with which new discoveries are made here, there’s ample opportunity for career advancement.

**Biostatisticians, Medical Writers,** and professionals in Regulatory Affairs and Professional Services will find rewarding career opportunities here as well. If you’re excited at the prospect of working where new discoveries are continually taking place, we invite you to send your resume and salary history to: Janssen Research Foundation, Employment Office, Box S390, 40 Kingsbridge Road, Piscataway, New Jersey 08854. An Equal Opportunity/Affirmative Action Employer M/F/H/V.

**JANSSEN RESEARCH FOUNDATION**

“Where Research Is The Driving Force”

A Johnson & Johnson Company

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**POSITION AVAILABLE**

**DIRECTOR, MEDICATIONS DEVELOPMENT DIVISION**

**NATIONAL INSTITUTE ON DRUG ABUSE**

**ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION**

**PUBLIC HEALTH SERVICE**

**DEPARTMENT OF HEALTH AND HUMAN SERVICES**

The Alcohol, Drug Abuse, and Mental Health Administration invites nominations and applications for the position of Director, Medications Development Division, National Institute on Drug Abuse.

This is a Senior Executive Service position in the career civil service, with an annual salary range of $71,200 to $79,200. Physicians may also be eligible for a Physicians’ Comparability Allowance of up to $20,000 per year. The position is located in Rockville, Maryland.

The Director, Medications Development Division provides programmatic, administrative, and general management of the five branches of the Division: the Biometrics Research Branch, the Clinical Trials Branch, the Regulatory Affairs Branch, the Chemistry and Pharmaceutics Research Branch, and the Pharmacology and Toxicology Branch. The Director is also responsible for coordinating the activities and medications development requirements of the three ADAMHA Institutes into the scientific and management activities of the Division and maintains close contact with designated medications development staff at the National Institute on Alcoholism and Alcohol Abuse and the National Institute of Mental Health.

The Director is also responsible for maintaining close working relationships with senior staff at the Food and Drug Administration on matters relating to operational and scientific procedures involved in medications development as well as the development of policy affecting ADAMHA’s programs. Additionally, the Director provides authoritative advice and consultation to senior agency officials on a wide range of matters pertaining to the treatment of brain and behavior disorders and the pharmacological evaluation of new treatment agents.

Minimum qualifications requirements include a degree of Doctor of Medicine, Doctor of Osteopathy, or a bachelor’s degree or higher degree in an academic field related to the health sciences pertinent to the work of the position. Candidates must demonstrate evidence of progressively responsible experience in managing large, complex science/research programs in the biomedical/behavioral areas; supervising or collaborating with senior-level scientists in academia, private industry, or the Federal Government; extensive current knowledge of research methodology in the biomedical, behavioral, pharmacological, or clinical sciences in areas relevant to drug abuse.

Further information about the position and qualifications requirements may be obtained by contacting Ms. Leslie Everheart at (301) 443-5030. An SF 171 (Application for Federal Employment) accompanied by a current curriculum vitae and bibliography should be submitted to Ms. Everheart at the Division of Personnel Management, Alcohol, Drug Abuse, and Mental Health Administration, 5600 Fishers Lane, Room 15C-26, Rockville, Maryland 20857. Complete Application material (including the SF 171) must be postmarked by the closing date of April 30, 1990. Resumes are not acceptable for entrance into the Senior Executive Service.

Applications from women and minority group members are encouraged.

**THE ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION IS AN EQUAL OPPORTUNITY EMPLOYER**
Cytogeneticist. Ph.D. level. Board-eligible or Board-certified, to supervise medium-sized clinical laboratory in Bethesda, Md. duties will include collaborative research with faculty in the department and some teaching related to one's specialty. Excellent communication skills and ability to work well with others. Please send letter of interest to: Dr. Carol Saxe, Molecular Medicine, Inc., 5606 Shields Drive, Bethesda, MD 20817.

EDITORS (INFORMATION OFFICER B)


ECOLOGY/EVOLUTIONARY BIOLOGY: RESEARCH INSTRUCTORS

The Ecology and Evolutionary Biology Department at Rice University invites applications for two Houston Research Instructors. These are 1-year appointments, renewable for a second year. Candidates will be expected to have recently completed a Ph.D. in Ecology and Evolutionary Biology. Duties will include collaborative research with faculty in the department and some teaching related to one's specialty. Excellent communication skills and ability to work well with others. Please send letter of interest to: Dr. C. A. Harcombe, Ecology and Evolutionary Biology Department, Rice University, P.O. Box 1892, Houston, TX 77251. Telephone: 713-527-4919. Applications should be received by 25 March 1990. Rice University is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL AND OCCUPATIONAL HEALTH CENTER DIRECTOR

The University of Kansas Medical Center is seeking a director to provide leadership to its environmental and occupational health projects and programs. State funds are available for core support of the center and research and training programs are in place which are funded by both federal and private sources. Good financial resources are available to assure a program of excellence.

Candidates for the position must have an earned M.D., Ph.D. or, where relevant, an advanced degree with good experience in the environmental and/or occupational health sciences. It is expected that the candidate will have a significant scholarly record in environmental and/or occupational research and appropriate academic appointment.

Faculty rank will be commensurate with the academic qualifications of the candidate. Salary is competitive and will be consistent with the background and experience of the candidate. Submit a letter of interest and curriculum vitae to: Stata Norton, Ph.D., Chairperson, Search Committee for Director, Department of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Center, 39th and Rainbow Boulevard, Kansas City, KS 66103. Applications received by 15 May 1990 are preferred, but the position will remain available longer if necessary to fill. The University of Kansas Medical Center is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF CALIFORNIA, IrvINE

Applications are invited for a tenure or tenure-track position in pharmacology. Qualifications include an outstanding record of research accomplishment in an area of pharmacology with long-term growth potential, commitment to teaching, and a Ph.D. (or M.D.) or both in pharmacology or related field. Level of appointment and salary will be commensurate with achievement and experience. Curriculum vitae, references, and a summary of research interests should be sent by 30 April 1990 to: Dr. Larry Stein, Chairman, Department of Pharmacology, School of Medicine, University of California, Irvine, CA 92717. An Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF ILLINOIS, CHICAGO

Applications are invited for an Assistant Professor position in Pharmacology to begin August 1990. The candidate must have a Ph.D. and postdoctoral experience and an established record of research productivity. The candidate will be expected to establish an independent program of research in an area of pharmacology compatible with the departmental research interests. The position is 100% research. The salary is $32,000 to $35,000, depending on the qualifications of the candidate. Applicants should send a letter of interest, curriculum vitae, and the names of three references to: Dr. C. M. Green, Director, Department of Pharmacology, University of Illinois, Chicago, 725 South Wood Street, IL 60612. An Equal Opportunity Employer.

FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF CHICAGO

Applications are invited for a tenure-track position, with an anticipated starting date of August 1990. The University of Chicago is committed to increasing the diversity of its faculty. Applications are invited from candidates whose work reflects a commitment to the advancement of research, teaching, and service in an environment that is supportive of diversity. Responsibilities include research, teaching, and service. Salary is commensurate with qualifications and experience. Applications should be submitted by 15 April 1990 to: Dr. C. M. Green, Director, Department of Pharmacology, University of Chicago, 725 South Wood Street, IL 60612. An Equal Opportunity Employer.

FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF IDAHO

Applications are invited for a tenure-track position in Pharmacology to begin August 1990. Preferred areas of research are cardiovascular, neuropharmacology, and behavioral pharmacology. Salary is commensurate with qualifications and experience. Applications should be submitted by 15 April 1990 to: Dr. R. E. Halsey, Department of Pharmacology, University of Idaho, Moscow, ID 83844. An Equal Opportunity Employer.

FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF SOUTH CAROLINA

Applications are invited for a tenure-track position in Pharmacology to begin August 1990. The candidate must have a Ph.D. and postdoctoral experience and an established record of research productivity. The position is 100% research. The salary is $32,000 to $35,000, depending on the qualifications of the candidate. Applicants should send a letter of interest, curriculum vitae, and the names of three references to: Dr. C. M. Green, Director, Department of Pharmacology, University of South Carolina, Columbia, SC 29208. An Equal Opportunity Employer.

FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF WISCONSIN MADISSION

Applications are invited for a tenure-track position in Pharmacology to begin August 1990. Search Committee is composed of biologists and chemists from Pharmacology, Biology, Chemistry, and Biochemistry. The successful candidate will have a Ph.D. and postdoctoral experience and an established record of research productivity. The position is 100% research. The salary is $32,000 to $35,000, depending on the qualifications of the candidate. Applicants should send a letter of interest, curriculum vitae, and the names of three references to: Dr. W. C. F. Windle, Department of Pharmacology, University of Wisconsin Madison, Madison, WI 53705. An Equal Opportunity Employer.
Opportunities for Research Assistants

BS/MS

Pfizer Central Research has immediate openings for research assistants within its expanding research facility. You will join well-established and growing project teams of interdisciplinary scientists and will work in newly constructed and well-equipped laboratories.

Osteoporosis
Conduct research to discover drugs for treating osteoporosis. In addition to a BS or MS degree, or the equivalent, you should have at least a basic knowledge of protein biochemistry and molecular biology. Experience in protein purification, SDS-gel electrophoresis, Western blotting, HPLC and tissue culture techniques helpful.

Genetic Toxicology
Assist in establishing in vitro and in vivo drug evaluation of genetic safety using cell systems. A BS or MS in cell biology, microbiology or the equivalent is required. Previous experience with mammalian cell gene mutation assays using cultured cell lines is desired.

Molecular Immunology
Study drug therapy of immunological disorders by conducting in vitro analysis of drug action on the expression of genes in immune cells. A BS or MS plus experience with Northern and basic recombinant DNA techniques as well as cell culture is required. The ability to work independently and to summarize and communicate results effectively is also expected.

Pfizer’s stimulating research environment provides the opportunity to interact with scientists from several disciplines. In addition, Pfizer offers a competitive compensation/benefit package and provides generous relocation assistance to our southeastern Connecticut shoreline community. Please send a resume indicating position of interest, a description of your research experience, and names of three references to: Mrs. Lorraine C. Corr, Personnel Supervisor, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.
POSITIONS OPEN

SALMONELLA GENETICIST. The Center for Vaccine Development, Department of Medicine, University of Maryland School of Medicine, 10 South Pine Street, Baltimore, MD 21201. An Affirmative Action/Equal Opportunity Employer.

IMMUNOLOGIST/PATHOLOGIST. National Cancer Institute (NCI), National Institutes of Health (NIH), Public Health Service, is seeking applicants to investigate immunological and biologic properties of recombinant/chimeric anti-tumor MAbS and modified constructs, and the immunohistochemical analyses of MAbS of defined specificities to oncogenic products and other tumor-associated antigens. Ph.D. or M.D./Ph.D. molecular biologist experienced in Salmonella genetics is required. The ASSISTANT PROFESSOR position involves research on attenuating and expressing foreign antigens in S. typhimurium. Applicants must demonstrate experience in Salmonella genetics; techniques for chromosomal integration of foreign genes and expression of foreign antigens in Salmonella are highly desirable. Salary: $30,000 to $40,000, depending on qualifications. Send curriculum vitae and names of at least three referees to: Dr. M. Levine, Center for Vaccine Development, University of Maryland School of Medicine, 10 South Pine Street, Baltimore, MD 21201. An Affirmative Action/Equal Opportunity Employer.

MOLECULAR BIOLOGIST UNIVERSITY OF MINNESOTA

Applications are being accepted for a continuing position in the Bone Induction Project (PI: Dr. M. Levine). The project involves an academic appointment in the Department of Laboratory Medicine and Pathology, University of Minnesota. The candidate will be considered as the ASSISTANT PROFESSOR (tenure track) level will have an M.D. or Ph.D. and a minimum of 2 years of experience beyond the degree with emphasis in molecular biology. Demonstration of research productivity is necessary with evidence of publications in peer-reviewed journals, and ability to attract national funding. Salary will be commensurate with education and experience. Send curriculum vitae, a brief description of career plans and goals, and a list of three references to: The Chair, Search Committee, Bone Marrow Transplantation Program, Laboratory Medicine and Pathology, University of Minnesota, 420 Delaware Street, S.E., Minneapolis, MN 55455. Deadline for receipt of applications is 1 June 1990. The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

POSITIONS OPEN

MOLECULAR BIOLOGIST. Tenure-track ASSISTANT PROFESSORSHIP in the Department of Biomedical Microbiology, Ph.D. in biological sciences, with emphasis in molecular cellular biology, is available. Research emphasis is in enhanced agricultural productivity desired. Other areas of excellence considered. One year of postdoctoral research experience required. Contact: Nels H. Granholm, Ph.D., Department of Biology and Environmental Science, State University of New York at P.O. Box 220/78, Brooklyn, NY 57007. Telephone: 605-688-6141. Screening of applications begins 16 April 1990. Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLOGIST

The Department of Neurobiology and Anatomy at the University of Rochester School of Medicine is interested in recruiting research-oriented neuroscientists who are capable of contributing to our educational program in human anatomy. A tenure-track position at the associate professor level teaching allows optimal time for scholarly activities. Our departmental faculty of 35 primary and secondary appointees provide a broad base of collaborative research opportunities in the molecular through systems approaches. Strong interdepartmental programs serve as bridges to several clinical programs, particularly in areas of neuroimmunology. Adequate space and facilities are available to allow us to consider new, as well as established, investigators for these positions.

Interested applicants are invited to forward current curriculum vitae, three selected reprints, the names of three to five references, and a letter of transmittal. As a courtesy to references, please do not request that letters be sent at this time. Address correspondence to: John R. Sladek, Jr., Ph.D., Kilian and Caroline Schmitt Professor and Chairman of Neurobiology and Anatomy, University of Rochester School of Medicine, 601 Elmwood Avenue, Box 603 Rochester, NY 14620. Telephone: 716-275-2591. The University of Rochester is an Equal Opportunity Employer.

NEUROCHEMIST

The CNS Division of Ferrosan has a challenging career opportunity for a highly motivated NEUROCHEMIST. The successful candidate will join a team of scientists engaged in basic research and drug discovery programs directed toward the identification of novel therapeutic approaches to CNS disorders such as epilepsy, ischemia, anxiety, and schizophrenia. Qualified applicants should have a Ph.D. in neuroscience, or a related field, and 0 to 3 years of experience. The successful candidate should have experience with one or more of the following in vitro biochemical and pharmacological techniques: radioisotopic binding, autoradiography, deoxyglucose techniques, and second messenger system determinations.

The CNS Division, which is a part of Novo Nordisk CNS Unit, is located approximately 5 miles from Copenhagen in Denmark. Interested candidates should submit their curriculum vitae and description of research experience to: A/S Ferrosan, Department K, Marken 5, DK-2860 Soeborg, Denmark, Attention: Personnel Department.

NEUROPHYSIOLOGIST-ASSISTANT PROFESSOR/DIRECTOR OF RESEARCH in Division of Otolaryngology and Department of Physiology. Available 1 July 1990. Ph.D. in a research area involved with research in cranial nerve neuromuscular control or cochlear physiology. Funding support provided for 3 years, at which time extramural grants are expected. Skills in intraoperatively evoked potential monitoring are advantageous. Send curriculum vitae and three references to: Scott Estrem, M.D., One Hospital Drive-MA3-14, Columbia, MO 65212. University of Missouri-Columbia is an Equal Opportunity/Affirmative Action Employer.

PLANT MOLECULAR BIOLOGIST M.S./B.S.

Westvaco, a leader in pulp and paper products manufacturing, is expanding its forest research program in tree molecular biology. We seek a highly motivated individual with experience in molecular biology and genetic transformation of forest trees. Primary duties will be to perform laboratory experiments with additional responsibilities to supervise and coordinate a small research and support staff. Ph.D. with 1 to 2 years of postdoctoral experience with a description of research interests to be developed, and three letters of recommendation to: John J. Marchalonis, Chair, Department of Microbiology and Immunology, Arizona Health Sciences Center, Room 6103, University of Arizona, Tucson, AZ 85724. Review of applications will begin 1 April 1990. The University of Arizona is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

NEUROBIOLOGY AT ROCHESTER TENURE-TRACK FACULTY POSITIONS

IMMUNOLOGY/CELL BIOLOGY

Impath Laboratories has an immediate opening for a scientist to join its immunopathology testing program. Position will be responsible for projects analyzing antibodies and molecular probes in tissues. Candidates must have a M.S. (Ph.D. or M.D. preferred) and at least 2 years of experience in testing techniques such as immunohistochemistry, in situ hybridization, immunoblotting, and DNA blotting. Please send curriculum vitae to: Personnel, Impath Laboratories, 1010 Third Avenue, New York, NY 10021.

THE EVERGREEN STATE COLLEGE

MARINE ENVIRONMENTAL SCIENCES

One-year renewable position. Must be able to teach in junior/senior level interdisciplinary program in chemical, physical, and biological oceanography with related topics (fall); marine biology with related topics (winter); and marine ecology, paleontology, and ocean prehistory (spring). Teaching experience required. Please send letter of application, curriculum vitae, three references, and transcripts to: The Chair, Search Committee, The Evergreen State College, 2001 Evergreen Boulevard, Olympia, WA 98506. Reply by 15 March 1990. Equal Opportunity Employer.

MICROBIAL PHYSIOLOGIST. Available 6 August 1990. The University Department of Microbiology and Immunology, University of Arizona, invites applications for a tenure-track appointment as ASSISTANT PROFESSOR. Applicants must have a Ph.D. in microbiology and 1 to 2 years of postdoctoral experience. The successful candidate will develop and teach an upper division undergraduate/graduate course in microbial physiology and conduct investigations in microbial physiology, and teach undergraduate research projects, and will participate in the graduate program. The candidate will also develop a strong, funded research program. Applicants are invited to submit a letter of application, curriculum vitae, a description of research interests to be developed, and three letters of recommendation to: John J. Marshallons, Chair, Department of Microbiology and Immunology, Arizona Health Sciences Center, Room 6103, University of Arizona, Tucson, AZ 85724. Review of application will begin 1 April 1990. The University of Arizona is an Affirmative Action/Equal Opportunity Employer.
Applications are invited for a full-time appointment in the area of orthopedics/manual therapy or geriatrics in the Department of Physical Therapy, University of Alberta. The University of Alberta offers BSc and MSc degrees in Physical Therapy. Qualified candidates must be physical therapists who possess at least a masters degree and have advanced clinical training and experience in the area of Orthopedics/Manual Therapy or Geriatrics.

Salary will be commensurate with qualifications and experience. (Assistant Professor: $34,970 – $51,434).

Responsibilities include undergraduate and graduate teaching, clinical practice, and administrative duties such as curriculum development for a clinical masters program. A strong clinical background is a requirement. For the orthopedic/manual therapy position, preference will be given to candidates who have passed the CPA Orthopedic Division’s A and/or B Examinations.

Qualified applicants should send a curriculum vitae, clinical experience record and state their teaching interests in addition to orthopedics/manual therapy or geriatrics together with the names of three referees to:

Dr. Martha C. Piper, Dean
Faculty of Rehabilitation Medicine
3103 UAH Education and Development Centre
University of Alberta
Edmonton, Alberta
T6G 2G4

The University of Alberta is committed to the principle of equity in employment.

The deadline for receipt of applications is May 30, 1990.
MOLECULAR BIOLOGIST

Gerontology Research Center
National Institute on Aging
National Institutes of Health
Public Health Service
Department of Health and Human Services

The Intramural Research Program of the National Institute on Aging (NIA), Baltimore, Maryland invites nominations and applications for the position of an experienced molecular biologist to lead major research programs related to changes in gene regulation and expression in response to cellular damage, age and age-associated disorders. Current studies include heat shock gene expression, gene induction after DNA damage, and antiproliferative genes. Starting salary dependent on qualifications and experience. Candidates must be a U.S. citizen or permanent resident.

Further information may be obtained by contacting Ms. Barbara Hughes at 301-550-1733. An Application for Federal Employment (SF-171) with a current curriculum vitae and bibliography should be submitted to:

Personnel Office
Gerontology Research Center
National Institute on Aging
4940 Eastern Avenue
Baltimore, Maryland 21224

Applications must be postmarked no later than April 15, 1990.

NIH is an Equal Opportunity Employer

CYTOGENETICIST

Amoco Technology Company in Naperville continues to expand its staff and currently has an excellent career opportunity for a Cytogeneticist.

We seek an experienced Cytogeneticist to assume a leadership role in designing and developing imaging instrumentation and DNA probe reagents for use in genetic testing. Amoco Technology Company is a leader in the development of DNA probe reagents and instrumentation for use in cytogenetics laboratories. We are presently expanding that effort to include the development of new classes of cytogenetics tests utilizing both DNA probes and advanced microscope imaging systems. These tests will be used in both hospital cytogenetics and pathology labs for routine analysis of genetic defects associated with disease.

The successful candidate will be working closely with a team of molecular biologists, engineers, computer scientists, biochemists, chemists and cytogeneticists participating in this effort. He/she must have at least a PhD or MD in some field of biology or medicine with a minimum of 2 years of experience working as a Cytogeneticist. We prefer an individual who has experience in supervision and who has directed a clinical laboratory.

Amoco offers salaries commensurate with experience, a comprehensive benefits package and a congenial work environment. For immediate consideration, please forward your resume and salary history in strictest confidence to:

Professional Recruiting Coordinator
AMOCO RESEARCH CENTER
P.O. Box 3011/Dept. TM-2/23
Naperville, IL 60566
Equal Opportunity Employer M/F/V/N

Exciting Careers Start Here

San Francisco Bay Area

SyStemix, Inc. is an exciting new company developing revolutionary technology for the study of human disease processes and treatments. In order to complete our team of researchers, assembled to develop the SCID-hu mouse for investigating infectious disease and harnessing the human immune response, we are seeking the following:

Project Manager
This position will lead our drug testing group for anti-HIV vaccines. The successful candidate will have good scientific judgement and strong supervisory, interpersonal and organizational skills.

Research Scientist
This position will be leading our T&O cell group in conducting studies of human fetal T&O cell functions both in vitro and in the SCID-hu model. The successful candidate will have a strong background in Cellular Immunology, developmental biology of the immune system, immunohistochemistry and analysis of antibody responses. In addition, we require 5+ years of postdoctoral experience.

SyStemix
To be considered for these unique opportunities please send your resume with cover letter to: SyStemix, Inc., ATTN: Human Resources, 3400 W. Bayshore Rd., Palo Alto, CA 94303. Equal Opportunity/Affirmative Action Employer.
Drug Metabolism/Pharmacokinetics

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, is seeking a scientist to join our expanding Pharmacokinetics group.

The scientist will design and direct primarily clinical (and some preclinical) pharmacokinetic and drug metabolism studies and perform pharmacokinetic and statistical data analysis. The position offers substantial opportunity for collaboration with other scientists involved in the discovery and development of novel therapeutic agents. As part of the multi-disciplinary project teams, the scientist will be expected to provide the drug metabolism perspective to fellow research scientists. Since the scientist will assume a high degree of project related responsibility, the position will also draw heavily upon individual scientific initiative, independence and innovation. Excellent interpersonal and communication skills are critical. Publication and presentation of research findings are strongly encouraged.

Candidates should possess a Ph.D. or Pharm.D. in Pharmacokinetics, Pharmacy or Pharmaceutics. An in-depth understanding of pharmacokinetic principles and demonstrated ability to apply those principles in metabolism is required, as well as strong bioanalytical skills.

Based in a state-of-the-art research facility in suburban Philadelphia near Valley Forge, PA, SmithKline Beecham provides a stimulating, collegial atmosphere with extensive scientific resources available to each scientist. We offer an attractive compensation/benefits/relocation package. For confidential review, please forward your CV to Liz McKendry, E122, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer. M/F/H/V.

SmithKline Beecham Pharmaceuticals

FACULTY POSITIONS

Molecular, Cellular and Clinical Pharmacology

The Department of Pharmacology and Experimental Therapeutics and the Division of Clinical Pharmacology at the Medical University of South Carolina seek to fill up to seven positions at the assistant or associate professor level over the next two years. Applicants should have a Ph.D. and/or M.D. degree, successful postdoctoral experiences and the enthusiasm and energy to develop independent research careers in an environment where collegiality and collaboration are important traditions. We are looking for scientists and scientists/physicians who plan to apply their interests and capabilities in molecular genetics, protein chemistry, receptors, channels, signal transduction mechanisms or cell biology to problems in basic and clinical pharmacology. We offer an environment rich in senior level scientific and clinical experience, start up funds, laboratory space, a record of highly successful and continuing extramural research funding and an array of important resources which include: both inpatient and outpatient NIH supported clinical research units (1000 hypertensive patients); extensive analytical capabilities (e.g., 400 MHz NMR, triple quadrupole and new NSF-supported high mass, high performance tandem mass spectrometers); and access to hydridonna, cell culture, synthetic organic chemistry, image analysis, and peptide and DNA sequencing and synthesizing facilities. We are committed to a broad spectrum of undergraduate teaching and predoctoral and postdoctoral training, with an excellent track record in the local environment of teaching and student research awards. Send curriculum vitae, reprints, list of references and a summary of career goals to:

Harry S. Margolius, M.D., Ph.D., Chairman
Department of Pharmacology and Experimental Therapeutics

Perry V. Halushke, M.D., Ph.D., Director
Division of Clinical Pharmacology

Medical University of South Carolina
171 Ashley Avenue
Charleston, South Carolina 29425

An Equal Opportunity/Affirmative Action Employer.

Natural Products Research

As we continue to expand our Natural Products Discovery Program, we offer exciting research opportunities at our Great Valley, PA and Rensselaer, NY facilities for Senior Research Scientists and Research Scientists in the Natural Products Chemistry and Biology Departments.

COMMITTED TO SCIENTIFIC EXCELLENCE

Senior Research Scientist
Great Valley, PA

Successful candidate will be responsible for the isolation and structure determination of natural products of biological interest. Position requires a Ph.D. in organic or analytical chemistry or biochemistry with 1-3 years’ postdoctoral experience in natural products chemistry. Experience with various separation techniques, particularly using analytical and preparative HPLC methods, is required. A strong background and technical competence in contemporary structural elucidation methods applied to natural products is desired. Please respond to: GV-230.

Research Scientist
Great Valley, PA

Successful candidate will be a part of an interdisciplinary team involved in the detection, isolation and characterization of natural products. Position requires a Ph.D. in organic or analytical chemistry or biochemistry with some experience in natural products. Knowledge of HPLC-photodiode array and other chromatographic methods to support profiling, scale-up and isolation of bioactive compounds from crude mixtures is essential. Experience with spectroscopic techniques and computers is desirable. Please respond to: GV-270.

Research Scientist
Rensselaer, New York

Successful candidate will be responsible for cultivating microorganisms for the production of novel compounds and the development of analytical methods, including HPLC and TLC, for the initial characterization of unknown natural products. Position requires a BS/MS in organic chemistry or biochemistry with some experience in analytical biochemistry, chromatography, and industrial microbiology. Some familiarity with fermentation scale-up and the operation of computer controlled batch-fermenters preferred. Please respond to: RS-077.

Sterling Drug Inc. offers competitive salaries and a comprehensive benefits program along with outstanding career opportunities for personal and professional growth. For confidential consideration, please refer to position code number, and forward your resume, salary history, requirements, and the names of three references to:

Human Resources, Sterling Research Group,
A Division of Sterling Drug Inc., 9 Great Valley Parkway, Malvern, PA 19355. Equal Opportunity Employer M/F/H/V.

Sterling RESEARCH GROUP
A Division of Sterling Drug Inc.
A Subsidiary of Eastman Kodak Company
Build A Future With Sterling.
Research Scientist
Animal Health Product Development

Pfizer, a multinational, research-based leader in healthcare products, has a challenging, high-visibility opening on the staff of its Animal Health Research Division.

Based at our Terre Haute, Indiana research facility, you will be involved in the development of new animal health/veterinary pharmaceuticals. This will involve preparation of clinical research plans and experimental protocols to ensure that potential products meet efficacy and safety requirements and are marketable. As a primary investigator, you will conduct on-station research, identify investigators/sites for collaborative research, monitor off-station research, provide clinical consultation for all developmental research projects and supervise project technicians or clinical trial monitors.

This important assignment requires a PhD or a DVM plus an MS with a major in veterinary parasitology or the equivalent. The applicant should have experience in applied large animal parasitology.

We can provide all the professional and personal satisfactions of a Fortune 100 company, including a competitive salary, excellent benefits, relocation assistance and growth potential. For confidential consideration, please send your resume and salary history to: Ms. Christina Batjer, Pfizer Inc., Box 99, Terre Haute, IN 47808. An equal opportunity employer.

RESEARCH SCIENTISTS

Telios Pharmaceuticals, Inc., is a new and growing pharmaceutical company strategically focused in developing synthetic and recombinant extracellular matrix components into a premier portfolio of human therapeutic products. Telios is located near the University of California at San Diego and in close proximity to a number of prestigious medical and research institutes. We offer the opportunity to join the company during its organizational stages and participate in the challenging job of building a successful enterprise. Experienced scientists are being sought in the following areas:

Organic Chemist – Peptide Solution Chemistry
Responsible for development of solution methods for synthesizing peptides. In addition, the scientist will interact with an engineering staff to develop industrial processes capable of producing pharmaceutical-quality peptides. An MS or Ph.D. in organic chemistry is required and experience in solution-phase peptide chemistry is highly desirable.

Organic Chemist – Peptide Structure and Design
Responsibilities include the design and synthesis of biologically active polypeptides and the study of the structure-function relationships between peptides and receptors. A Ph.D. in organic chemistry, demonstrated skills in organic chemistry, knowledge of 2-D NMR techniques, and some familiarity with computer-assisted drug design are required.

Biochemist – Platelet Physiology
Responsibilities include coordinating the development of a unique anti-thrombotic agent. A Ph.D. in biochemistry or physiology is required with experience in protein chemistry and platelet biology highly desirable.

Pharmacologist
Responsibilities include establishing model systems to study the efficacy of our drugs in wound healing, chemotherapy and cardiovascular applications. A Ph.D. with experience in animal physiology and drug formulation are required.

Please send your CV, bibliography and references to:
Telios Pharmaceuticals, Inc.
Director of Personnel
2909 Science Park Road
San Diego, California 92121

POSITIONS OPEN

PEDIATRIC GASTROENTEROLOGY. The Department of Pediatrics at the University of Arizona College of Medicine in Tucson has available a second full-time position as the ASSISTANT OR ASSOCIATE PROFESSOR level in pediatric gastroenterology. Applicants with developed interests in clinical or basic research are preferred. Board certification or eligibility in pediatric gastroenterology required. Send résumé to: Dr. John N. Udall, Jr., Pediatrics, AHSC, 1501 North Campbell Avenue, Tucson, AZ 85724. The review of applications will begin 1 March 1990, and will continue until the position is filled. The University of Arizona is an Equal Opportunity/Affirmative Action Employer.

PEDIATRIC NEPHROLOGY. The Department of Pediatrics at the University of Arizona College of Medicine in Tucson has available a full-time position at the ASSISTANT OR ASSOCIATE PROFESSOR level to head the Section of Nephrology. The emphasis will be on clinical, teaching, and research responsibilities. Board certification or eligibility in nephrology required. Send résumé to: Dr. Stanley J. Goldberg, Pediatrics, AHSC, 1501 North Campbell Avenue, Tucson, AZ 85724. The review of applications will begin 1 March 1990 and will continue until the position is filled. The University of Arizona is an Equal Opportunity/Affirmative Action Employer.

PHYSIOLOGY AND BIOPHYSICS

Applications are invited for two tenure-track faculty positions at the ASSISTANT OR ASSOCIATE PROFESSOR levels in the Department of Physiology and Biophysics. These positions will be available 1 July 1990. Research areas of interest include endothelial cell-smooth muscle interactions, cardiovascular ion channels, and membrane transport. In addition to carrying out an active research program, the candidate will be expected to participate in the teaching programs of the department which include graduate, medical, and allied health students. A competitive salary and set-up funds are available. Interested applicants should send current curriculum vitae and the names of three references by 30 April 1990 to: Irving H. Zucker, Ph.D., Chairman, Department of Physiology and Biophysics, University of Nebraska College of Medicine, 42nd and Dewey Avenue, Omaha, NE 68105

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

PROKARYOTIC GENETICS

The Department of Biology at Texas A&M University invites applications for a tenure-track position in bacteri- al or bacteriophage genetics and molecular biology. Candidates should be using a prokaryotic organism to study fundamental biological problems. Special consideration will be given to applicants interested in development- al, regulatory, or membrane systems. Essential qualifica- tions include a strong record of research accomplish- ment, the ability to develop a vigorous research program, and a commitment to training undergraduate and gradu- ate students. Please send curriculum vitae, a statement of research interests, and three letters of recommendation by 15 April 1990 to: Dr. Michael D. Manson, Chairman, Microbiology Search, Department of Biology, Texas A&M University, College Station, TX 77843. Telephone: 1-800-TAM-BIOL. FAX: 409-845-2891. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available April 1990 to study signal transduc- tion in rat parotid glands. Research involves an examina- tion of the coordinate roles of phosphoinositide metabo- lism and cAMP formation in the exocytotic process. These studies will include analysis of the interrelation- ships between diacylglycerol formation, cytosolic calci- um, and amylase secretion. Previous experience with cell isolation techniques and cellular biochemistry is desired. Send curriculum vitae and the names of three references with telephone numbers to: Dr. Ronald F. Rubin, Department of Pharmacology and Therapeutics, State University of New York-Buffalo, 102 Farber Hall, Buffalo, NY 14221. Affirmative Action/Equal Op- portunity Employer.

SCIENCE, VOL. 247
Positions Open

Postdoctoral Position
Gene Regulation/RNA Processing

Available July 1990 or after for a Ph.D. or M.D. to study regulation of tissue specifically expressed, differentially spliced coagulation proteins. Experience in molecular biology desirable. Send curriculum vitae and names of three references to: Dr. P. I. Haidaris, Department of Medicine/Hematology, Box 610, University of Rochester, 601 Elmwood Avenue, Rochester, NY 14642.

The Institute of Marine and Coastal Sciences has established a competitive POSTDOCTORAL PROGRAM. All fields relevant to marine and coastal sciences will be considered. Proposals will be considered until 15 April 1990 for an award starting 1 July 1990. Please send applications to: Dr. Frederick Grassle, Institute of Marine and Coastal Sciences, Box 231, Rutgers University, New Brunswick, NJ 08903. Rutgers is an Equal Opportunity/Affirmative Action Employer.

Biochemist

Postdoctoral Research Position

Available June 1990 to study cellular signaling systems involved in regulating neurotransarchitecture in the developing mammalian brain. Roles for excitatory amino acids, growth factors, and intracellular calcium in the regulation of neuronal outgrowth and cell survival in the hippocampus and cerebral cortex are being examined, both in cell culture paradigms and in situ. The involvement of altered cellular signaling in pathoanatomical neuronal degeneration is being studied in parallel, with particular reference to Alzheimer's disease and related disorders. Among the technical approaches employed are: cell culture; quantitative fluorescence imaging of intracellular calcium, immunocytochemistry at the light and E.M. levels; in situ hybridization; Experience with molecular biological techniques is desirable. Considerable flexibility in projects is possible. Salary is available for up to 3 years. Send curriculum vitae, a short one-page summary of previous work, and names of three references to: Mark P. Martinson, Ph.D., Sanders-Brown Research Center on Aging, University of Kentucky Medical Center, Lexington, KY 40536–0230. An Equal Opportunity/Affirmative Action Employer.

Research Associate

Loyola University Chicago, Department of Pathology, seeks a research associate to work on several research projects. Responsibilities include: 1) integrity of genomic DNA by microcomputer and biochemical methods: quantitation of DNA by infrared spectroscopy, densitometry, and ethidium bromide staining. Experience and familiarity with molecular biology techniques is required, and familiarity with computer science is desired. Experience with mouse selectable markers in cultured cells is desirable. Send curriculum vitae, names of three references to: Dr. Maria M. Picken, Department of Pathology, Loyola University Medical Center, 2160 South First Avenue, Maywood, IL 60153. Loyola University is an Affirmative Action/Equal Opportunity Employer.

Two Postdoctoral Positions
Protein Crystallography

Two positions are available for crystallographers with experience in single crystal x-ray structure determination. Small molecule crystallographers desiring to gain experience with macromolecules are also encouraged to apply. Several projects are available involving proteins of broad biological and biochemical interest. A complete diffraction facility is available, including a rotating anode with diffraction cameras and area detectors, crystal growth systems, and computerized data analysis facilities. Available July 1990. Send resume to: Dr. Kurt L. Krause, Department of Biochemistry, University of Houston, Houston, TX 77024–8500.

Postdoctoral Position

Available June 1990 to study cellular signaling systems involved in regulating neurotransarchitecture in the developing mammalian brain. Roles for excitatory amino acids, growth factors, and intracellular calcium in the regulation of neuronal outgrowth and cell survival in the hippocampus and cerebral cortex are being examined, both in cell culture paradigms and in situ. The involvement of altered cellular signaling in pathoanatomical neuronal degeneration is being studied in parallel, with particular reference to Alzheimer's disease and related disorders. Among the technical approaches employed are: cell culture; quantitative fluorescence imaging of intracellular calcium, immunocytochemistry at the light and E.M. levels; in situ hybridization; Experience with molecular biological techniques is desirable. Considerable flexibility in projects is possible. Salary is available for up to 3 years. Send curriculum vitae, a short one-page summary of previous work, and names of three references to: Mark P. Martinson, Ph.D., Sanders-Brown Research Center on Aging, University of Kentucky Medical Center, Lexington, KY 40536–0230. An Equal Opportunity/Affirmative Action Employer.

We're Not Leaving
Success To Chance.

Vertex is a privately held company founded in January 1989 to develop small-molecule human therapeutics by application of protein structure-based rational drug design. We are integrating the latest advances in chemistry, biology, and physics to design unique molecules based on the structural features of proteins involved in the control of disease processes. Our goal is to become a major pharmaceutical firm by utilizing rational drug design in the discovery and development of novel drugs.

Currently we are seeking a diverse selection of motivated, experienced professionals to join Vertex's growing scientific staff. Minimum requirements are a Bachelor's and/or Master's degree in the appropriate discipline, with at least four years of post-Bachelor's laboratory experience. If you are a high-energy, forward-thinking innovator and team player in search of an environment where your best ideas will be an integral part of our success story, we would like to speak with you.

Scientists

Molecular Biology—Expression

You will direct a program in eukaryotic and bacterial expression of novel protein targets for drug design. Experience in design of novel expression vectors, manipulation of host cells, and analysis of transcription and translation in heterologous systems is required. A highly qualified candidate would have past experience in directing expression efforts, a strong publication record in eukaryotic and bacterial expression, and a history of contributions to interdisciplinary programs in the areas of immunology, control of gene expression and/or intracellular signaling.

Enzymology & Protein Chemistry

You will design and implement new receptor-binding and enzyme kinetic assays for novel immunoregulatory compounds. You will also participate in the purification and characterization of natural and recombinant proteins. A qualified candidate will have at least two years' research experience in performing quantitative studies of enzyme-catalyzed reactions, computer-assisted kinetic analyses, and equilibrium-binding studies of protein-ligand interactions. Familiarity with modern methods of protein chromatography and electrophoresis is highly desirable.

Physical Biochemistry and X-Ray Crystallography

You will work with an experienced team of X-ray crystallographers and other biophysicists working to provide structural information on targeted proteins. The successful candidate will have a strong background in physical biochemistry, biophysics, and related areas, with an enthusiasm for this rare opportunity to be involved in all aspects of protein structure determination, including crystal growth, data collection, structure solution and refinement. Direct experience with X-ray crystallography is a plus.

Computational Chemistry

You and the rest of the computational chemistry team will be on the critical bridge between biophysicists, who provide the macromolecular structures of our drug targets of interest, and the chemists who will synthesize drug candidates. The successful candidate will function across the full range of computational chemistry. Molecular modeling and some scientific programming experience with a strong working knowledge of molecular chemistry are required, as well as a familiarity with VMS and UNIX operating environments.

Protein NMR

Using our dedicated Bruker AMX 500 MHz NMR, you will use protein NMR both as a protein structure determination tool on therapeutically important protein targets of MW<20 kD and to study the details of ligand/protein interactions. The successful candidate will have extensive experience in all aspects of protein NMR with a demonstrated record of application of these techniques to real problems. The candidate should be enthusiastic about using NMR as part of an integrated application of X-ray crystallography and computational techniques to the study of protein structure and ligand/protein interactions.

We are also seeking exceptional candidates in gene regulation/transcription yeast genetics, immunology, macromolecular chemistry, scientific programming, and medicinal chemistry. Please refer to the February 16, 1990 issue of Science for details concerning these positions.

Our salaries and benefits are excellent, as is the potential for equity and professional development. Please forward a detailed resume with salary history, indicating area of expertise, to: Vertex Pharmaceuticals, 40 Allston Street, Cambridge, MA 02139–4211. We are an Equal Opportunity Employer.
POSTDOCTORAL POSITION

Available June of 1990 to work with an interdisciplinary team developing new methods, using polymeric materials to design monoclonal antibodies, to protect mucosa epithelia against infectious diseases, including AIDS. Should have experience in cell biology, biochemistry, virology, molecular biology, or chemical engineering. Send resume and names of three references to: Dr. Mark Saltman, Department of Biological Engineering, The Johns Hopkins University, Baltimore, MD 21218. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available immediately to study the ionic basis for the intrinsic pacemaker activity of the somatotrope cell, the natural pacemaker of the vertebrate adenohypophysis. The postdoctoral position will begin with a single, isolated pacemaker cell. Salary: $30,000 to $36,000 plus benefits and funds for travel. Experience with patch-clamp or similar recording techniques desired. Before I April 1990, send curriculum vitae and three letters of reference to: Dr. Richard D. Nathan, Department of Physiology, Texas Tech University Health Sciences Center, Lubbock, TX 79430. Texas Tech University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

MAMMALIAN MOLECULAR GENETICS

A postdoctoral fellow to participate in recombinant DNA somatic cell genetic studies of eukaryotic (human), animal, and microbial genes. Strong foundation in molecular biology, genetics, and biochemistry is required. Ph.D. in molecular biology and strong interests in mammalian epidermal cell biology. Minimal qualifications: Ph.D. and previous experience in molecular biology or protein purification. Salary is commensurate with experience for a minimum of $24,000. Excellent benefits. U.S. citizenship not required. Send resume and telephone numbers of three references by 1 April 1990 to: Dr. Piotr Chomczynski, Department of Endocrinology and Metabolism, University of Cincinnati College of Medicine, Cincinnati, OH 45267–0547. Affirmative Action/Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION

Required experience in biological methods, such as biochemistry, for mammalian cells in culture. Experience in mammalian cell culture, immunology, virology, or molecular biology with emphasis on the use of recombinant DNA techniques is preferred. Send resume and names of three references to: Dr. Frank Q. H. Ngo, Director of Radiobiology Laboratory, Research Institute, and Department of Radiation Oncology, Harvard Medical School, 505 Huntington Avenue, Boston, MA 02115.

POSTDOCTORAL POSITION

Available immediately to work with an interdisciplinary team developing new methods, using polymeric materials to design monoclonal antibodies, to protect mucosa epithelia against infectious diseases, including AIDS. Should have experience in cell biology, biochemistry, virology, molecular biology, or chemical engineering. Send resume and names of three references to: Dr. Mark Saltman, Department of Biological Engineering, The Johns Hopkins University, Baltimore, MD 21218. Equal Opportunity/Affirmative Action Employer.

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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. The institute invites applications for senior scientist positions in its newly formed Molecular and Structural Biology group. Current programs in this group include: electron microscopy of macromolecules, DNA-protein interactions, membrane transport and drug resistance, and the structure-function relationship of biologically active polypeptides. To complement this group, up to four candidates are sought with state-of-the-art expertise in areas of research that include NMR spectroscopy, X-ray crystallography, protein engineering, theoretical molecular modelling, or other biophysical techniques.

New members should be eligible for appointment at the assistant or associate professor level in the Department of Medical Biophysics of the University of Toronto, a graduate department that emphasizes strong multidisciplinary research. Preference will be given to individuals with research interests in fields such as: structural aspects of molecular recognition, receptor-ligand interactions, the structure of molecules of the immune system or in molecular design aimed at cancer therapy.

In accordance with Canadian Immigration requirements, priority in the first instance will be given to Canadian citizens and landed immigrants. In accordance with the Employment Equity Policy of the University of Toronto and the Ontario Cancer Institute, applications are invited from all qualified women and men.

Interested persons should send their curriculum vitae, statement of research interests, and names of three references to:

Dr. Victor Ling, Ontario Cancer Institute, 500 Sherbourne Street, Toronto, Ontario, Canada, M4X 1K9

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The Chemical Industry Institute of Toxicology (CIIT) is an independent non-profit research corporation. Our mission is to improve the scientific basis for understanding and assessing the potential adverse effects of chemicals, pharmaceuticals, and consumer products on human health. We currently have the following positions available at our Research Triangle Park, N.C. location.

**QUALITY ASSURANCE MANAGER**

Responsibilities will include developing and implementing QA program, reviewing standard operating procedures and protocols, conducting data quality reviews and laboratory audits, conducting QA training programs and monitoring the QA status of research studies.

A Ph.D. or M.S. Degree with demonstrated research experience in toxicology or related field, a minimum of two years' QA experience in basic research studies, and a knowledge of Good Laboratory Practice (GLP) regulations are required. Position requires a manager with strong communication and organizational skills and the ability to initiate programs and to work independently. Background in statistics is desirable.

**RESEARCH CHEMIST**

The successful candidate will perform research on the identification and quantitation of adducts formed by interaction of reactive chemical metabolites with DNA or body proteins (e.g., hemoglobin), quantitation of metabolites (including reactive metabolites) in tissues, cells and organs after exposure to chemical toxicants, and the synthesis of chemical standards that will be used in a variety of chemical analyses.

Qualified candidate should have a Doctoral Degree in Organic, Analytical or Physical Chemistry and a knowledge of modern, synthetic and analytic techniques such as column chromatography, GC, HPLC, Spectrographic (IR, UV, MS, NMR) methods are required. The individual should have strong publication record, good communication skills, and experience working as a member of an interdisciplinary team.

CIIT is located in Research Triangle Park, N.C. which offers many cultural and recreational activities, as well as access to three major universities. We offer competitive salaries and benefits and a stimulating work environment. Applicants interested in either of these positions, please forward a resume, with letter of interest, to: Human Resources Manager, Chemical Industry Institute of Toxicology, P.O. Box 12137, Research Triangle Park, N.C. 27709.
PROFESSOR OF EPIDEMIOLOGY

The Department of Epidemiology at the Harvard School of Public Health is planning to appoint a tenured professor to serve in the Department and the Harvard AIDS Institute.

Applicants for the position should be internationally recognized, give evidence of commitment to and success in teaching graduate students and postdoctoral fellows, and present an outstanding record of epidemiological research, preferably in the area of AIDS.

The successful candidate will be expected to expand and provide scientific leadership for teaching and research programs in the epidemiological aspects of AIDS and to collaborate with other researchers in the Harvard AIDS Institute.

Please forward a curriculum vitae, including bibliography to:
Chairman, AIDS Epidemiology Search Committee
c/o Dean Ann Oliver
Harvard School of Public Health
677 Huntington Avenue
Boston, MA 02115

Qualified women and members of minority groups are encouraged to apply.

Faculty Position

Neurobiology

Applications are invited for a tenured track Assistant Professorship in the Department of Cell Biology and Anatomy. Candidate should have strong research background in cellular, developmental and/or molecular neurobiology and interest in teaching human neuroscience.

Please send CV, a summary of research plans and 3 letters of recommendation by May 15, 1990 to: Dr. Moses Chao, Department of Cell Biology and Anatomy, Cornell University Medical College, 1300 York Avenue, New York, New York 10021.

Henry J. Spector, M.D., Associate Professor, Department of Pediatrics, UCSD Medical Center, 225 Dickinson St. (H-814-H), San Diego, CA 92103. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE. Open position in program investigating immunology of host-parasite interaction. Experience required in antigen purification, tissue culture, and analysis of humoral and cell-mediated immune responses. Send curriculum vitae along with telephone numbers of three references to: Dr. Stephen K. Wikel, Department of Microbiology and Immunology, School of Medicine, University of North Dakota, Grand Forks, ND 58202.

POSTDOCTORAL/RESEARCH ASSOCIATE OR ASSISTANT PROFESSOR. Research track positions available for Ph.D. or M.D. with strong background in recombinant DNA technology to pursue research in a basic science or collaborative effort. Projects address the molecular basis of autoimmunity in diabetes mellitus. Please submit curriculum vitae and names of three references to: Dr. Michael P. Czech, Department of Biochemistry, or Dr. Aldo Rossini, Department of Medicine, University of Massachusetts Medical Center, Worcester, MA 01655. This medical center is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE. Directed mutagenesis study of the role of amino acid residues at an enzyme active site. Candidates for a position in this project should have research experience in enzymology or biochemical chemistry. For recent published work by the group, see J. Biol. Chem. 264, 3931 (1989), and 265, 2740 (1990). Training will be provided in mutagenesis techniques, and expertise in molecular biology techniques will be required. Starting salary: $22,000 or higher depending on relevant experience. To apply send curriculum vitae and three references to: Dr. R. L. Blakley, Department of Biochemical and Clinical Pharmacology, St. Jude Children’s Research Hospital, 332 North Lauderdale, Memphis, TN 38101. An Equal Opportunity Employer.

MOLECULAR PARASITOLOGY. Applications are invited for an appointment by 1 July 1990 in the Department of Geosciences, Case Western Reserve University, Cleveland, Ohio, at the level of RESEARCH ASSOCIATE with salary dependent on qualifications and prior experience. This position will be part of a large multi-investigator group studying the pathogenic mechanisms and human host immune response to the protozoan Entamoeba histolytica with the long-term goal of developing an efficacious subunit vaccine. A successful candidate will have a Ph.D. or M.D. degree, extensive experience with molecular biology techniques, and have completed a relevant postdoctoral fellowship. There is an opportunity for a future tenure-track position dependent on performance. Interested individuals should send curriculum vitae and 3 references to: Jonathan I. Ravdin, M.D., Department of Medicine, University Hospitals of Cleveland, Cleveland, OH 44106.

ASSISTANT RESEARCH CHEMIST, 37.5 hours per week; $16.20 per hour. Responsible for design and synthesis of fluorescent labeled and radiolabeled proteins and for studies of protein stability. May supervise graduate students in experimental work and theoretical discussion. Requires Ph.D. in chemistry and strong experience in organic synthesis, chemical kinetics, reaction mechanisms, structural elucidation by spectroscopic methods (UV, IR, GC-MS, 1H, and 13C-NMR), and quantum mechanics calculations. Job site and interview: Santa Cruz, California. Send this ad and resume to: Job No. JW12815, P.O. Box 9560, Sacramento, CA 95823–9560 no later than 18 March 1990.

The University of California, San Diego (UCSD), Department of Pediatrics, are seeking applications for three positions as ASSISTANT RESEARCH VIGNOLOGIST. Candidates should have experience in molecular biology and retrovirology or herpervirology, conduct research in AIDS pathogenesis, and the role of viral cofactors. Salary based on University of California policy. Interested individuals should send curriculum vitae with a list of three references to: Stephen A. Spector, M.D., Associate Professor, Department of Pediatrics, UCSD Medical Center, 225 Dickinson St. (H-814-H), San Diego, CA 92103. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE/ASSISTANT PROFESSOR. The Division of Digestive Diseases and the Yale Liver Center seek applications from candidates with M.D. or Ph.D. degree for postdoctoral and full-time faculty positions. We are emphasizing studies of hepatocyte transport and function. Experience with fluorescence imaging or electrophysiologic techniques in isolated cell systems is desirable. Interested candidates should submit curriculum vitae and three references to: J. L. Boyer, Department of Medicine, Box 3333, Yale University School of Medicine, New Haven, CT 06510. Yale University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE. In molecular biology to study eukaryotic transcription factors. Ph.D. in biology or microbiology is required. Studies will involve in vitro transcription, footprinting, gel-shift, factor purification, cDNA cloning, mutagenesis, and analysis of mutants. Applicants should have at least 2 years of prior postdoctoral or postdoctoral experience with particular training in in vitro analysis of prokaryotic or eukaryotic DNA binding proteins. Salary: $19,600 per year, 40 hours per week. Qualified applicants may apply with curriculum vitae and three references to: Employment Services Committee, c/o North Mangum Street, Durham, NC 27702, or your nearest Job Service Office. Refer to: Job Order # NC 09251, Code 027-010. If not a U.S. citizen, specify current visa status.

RESEARCH ASSISTANTS/ASSOCIATES. For a San Diego biopharmaceutical company currently designing and developing drugs for treatment and diagnosis of viral, bacterial, parasitic and inhalant diseases. Positions are available in molecular and neurobiology. Company has created immediate openings in our CNS, Cardiovascular, and New Drug Development divisions. We are seeking qualified people with a related B.S., M.S. or Ph.D. and 3 to 5 years of experience in one or more of the following areas: animal physiology, hemodynamics, neurobiology, and pharmaceutical formulations. We offer excellent salary and benefits including equity participation in a fast-paced, highly motivated R&D environment. Please send a resume with a cover letter specifying the position for which you are applying to: Box 22, SCIENCE.

The Department of Surgery, Division of Plastic, Reconstructive and Hand Surgery, University of Cincinnati, is seeking a Ph.D. trained in anatomy, cell biology, or physiology with an interest in RESEARCH IN AREAS related to wound healing, burn, microsurgery, development, biology, or craniofacial surgery. Experience with grant funding preferred. Candidate is expected to develop a research program in plastic surgical or related fields in basic science. Position will require interactive working relationships with plastic surgeons (clinical faculty and residents) and basic science investigators at the University of Cincinnati and the Shriners Burns Institute. Salary commensurate with qualifications and experience. Send curriculum vitae to: Henry W. Neale, M.D., Division of Plastic Surgery, University of Cincinnati College of Medicine, 231 Bethesda Avenue, Cincinnati, OH 45267–0558.

RESEARCH MOLECULAR BIOLOGIST. To develop a molecular biology research program for lobolly pine and/or other tree species. Will augment the gains we are getting from our conventional tree breeding program. To explore the use of recombinant DNA technologies to fingerprint germplasm and construct techniques needed to obtain the transfer of selected genes into trees utilizing Agrobacterium tumefaciens as a vector or utilizing a particle accelerator. To develop the required gene constructs needed to obtain the expression of selected transferred genes in specific regions of a tree. Ph.D. in plant molecular biology and 4 years of experience required. Also required are experience and an intimate knowledge of plant molecular biology tools such as restriction fragment length polymorphisms, gene structure, DNA sequencing, and DNA/RNA transfer, DNA expression, site-directed in vitro mutagenesis as well as all of the basic techniques of DNA and RNA analysis, and familiarity with DNA and protein manipulation using computer systems. Qualified applicants send resume to: Dr. J. E. Baker, South Carolina Job Service Center. Job Order Control # SC 0917911.

SCIENCE, VOL. 247
Support new areas of growth

Hoechst-Roussel Pharmaceuticals Inc., a fast growing subsidiary of Fortune 100 Hoechst Celanese Corp., and a world leader in neuro-science research, has several exciting career opportunities available due to the expansion of its biological research group to support central nervous system drug development programs.

Senior Research Psychopharmacologist
Responsibilities involve in vivo preclinical evaluation of potential new drug entities for the treatment of Alzheimer's disease, schizophrenia and other neuro-psychiatric diseases using behavioral and/or electrophysiological techniques. Ph.D. in pharmacology, physiology or neurosciences is required and prior experience is preferred, especially in passive avoidance procedure.

Pharmacologist I/Pharmacologist II
Responsibilities involve in vivo preclinical evaluation of potential new drug entities for the treatment of Alzheimer's disease and schizophrenia using various behavioral models, such as match-to-sample in primates. M.S. in Biological Sciences and prior experience in behavioral pharmacology and in handling monkeys is desirable.

Positions are located in our modern research facility in Bridgewater, N.J. We offer a competitive salary, flexible benefits program and Performance Sharing Plan. Please submit resume with salary requirements to: Jim Hamilton, Manager of Employment, Dept. 3131, Hoechst-Roussel Pharmaceuticals Inc., Route 202-206 North, P.O. Box 2500, Somerville, NJ 08876-1256. An affirmative action employer M/F/H/V.

Molecular Oncology Inc. is a young, fast-growing biotech research company involved in the transfer of the latest molecular diagnostics to the clinical laboratory and to novel therapeutics. If you're an enthusiastic individual with demonstrated abilities, we have a place for you on our team.

Laboratory Director – Tumor Biology
Experienced scientist to lead a small group studying tumor cell invasion and metastases. This effort will focus on the relationships of basement membrane and proteolysis to tumor progression. M.D. or Ph.D. degree required.

Group Leader – Antibody Development
Independent scientist with 2-5 years supervisory experience to develop monoclonal and polyclonal antibodies for research and product applications. M.D. or Ph.D. degree required.

Molecular Biologist
Molecular biologist with 1-5 years experience to participate in the following research areas: (1) the detection of metastatic disease by nucleic acid hybridization; or (2) the development of novel recombinant therapeutic proteins. All levels from research assistant to scientist will be considered.

Send employment history and C.V. to:
Molecular Oncology Inc.
Department S-2
19 Firstfield Road
Gaithersburg, MD 20878

Principals only. MOI is an equal opportunity employer.
**Research Molecular Biologists/PhD’s**

Enzo Therapeutics, Inc., a subsidiary of Enzo Biochem, Inc., seeks Molecular Biologists with experience in nucleic acid manipulation, mammalian expression vectors and gene transfer. An active and growing research and development effort requires candidates with the ability to design and implement cohesive research programs in addition to good communication and interactive skills.

Send resume to:

**ENZ DIAGNOSTICS, INC.**
325 Hudson Street, New York, NY 10013

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**Microbial Seed Coatings**

BioTechnica International Inc. (BTI) is a world leader in the development and application of next-generation technologies in the areas of agricultural biotechnology, microbial production systems and diagnostics. We have an opening at our Cambridge, MA facility for a highly-motivated Research Scientist to work in collaboration with microbiologists and lead a group developing systems for coating seeds with microorganisms of agronomic importance. The successful candidate will have several years of industrial experience working with polymers including film coating and microencapsulation, and will have a proven record of innovative research and leadership potential. Experience working with biological materials and biocompatible polymers would be ideal. Knowledge of seed physiology and seed coating techniques is desirable. Salary negotiable depending upon experience.

Qualified candidates should forward resume to BioTechnica International, Inc., Human Resources Department, 85 Bolton St., Cambridge, MA 02140. BTI is an equal opportunity/affirmative action employer.

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**Research Fellows**

**Hormone Regulation of Tumor Cell Growth**

Positions available for PhD scientists:

1. **Biochemist/Protein Chemist** to characterize the structure of a cell-cell adhesion glycoprotein regulating thyroid hormone dependent tumor cell growth. Project includes isolation and sequencing of peptide fragments encoding surface receptor recognition, peptide synthesis and receptor identification/analysis. Experience in protein/peptide chemistry and HPLC is required.

2. **Molecular Biologist** to study control of hormone-dependent gene expression by adhesion proteins and characterization/sequencing of receptor cDNA clones. Experience with eukaryote or prokaryote recombinant DNA methods is required.

3. **Cell Biologist** with related experience in immunology or endocrinology to study the cellular basis of adhesion protein regulation of thyroid hormone induced growth in serum-free defined culture including receptor dynamics and mechanism of action. Monoclonal antibodies blocking adhesion/growth activity will be studied.

Salaries are based on experience. Predoctoral students within 12 months of the final thesis are urged to apply. Senior investigators may be eligible for Research Track (non-tenure) positions. Send a current vita and the names of three references to: Professor David Sirbasku, The Department of Biochemistry and Molecular Biology, The University of Texas Medical School, P.O. Box 20708, Houston, TX 77225. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

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1515 BROADWAY
NEW YORK, N.Y. 10036
POSTDOCTORAL FELLOWS VIROLOGY

Cetus Corporation, a leader in biotechnology, has openings in the Diagnostics Research Program for experienced Virologists. The Diagnostics Research Program is involved, in collaboration with Hoffman La-Roche, in the development and design of diagnostic applications of the Polymerase Chain Reaction (PCR).

The successful candidates will have an MD and/or PhD with 0-3 years' postdoctoral experience in virology. Preference will be given to individuals with a strong molecular biology background, including PCR experience.

A position is available in the laboratory of M. Manos to study the role of human papillomavirus (HPV) in genital cancers. The successful candidate will have experience in the areas of gene expression, molecular virology, or tumor biology and, preferentially, in HPV. Projects include:

- the analysis of new HPV types, including genome structure, expression, and "potency" of transforming genes
- the role of cellular and viral factors in the progression of genital cancers
- retrospective and prospective epidemiological studies to elucidate the role of HPV in cancers

Respond to Box #90051/SW

A position is also available in the laboratory of J. Sninsky to study human retroviruses. The successful candidate will have experience in the area of molecular virology, with preference given to retrovirologists. Projects include:

- search for additional members of the retrovirus family involved in human disease
- characterization of human endogenous retroviral sequences
- host and viral factors involved in disease progression with emphasis on prognostic markers

Respond to Box #90052/SW

Cetus offers an excellent benefits package along with a collaborative environment that encourages career growth. For consideration, please send your curriculum vitae, indicating appropriate Box #, to Cetus Corporation, 1400 Fifty-Third Street, Emeryville, CA 94608. We are an Equal Opportunity Employer.

BIOTECHNOLOGY

POSTDOCTORAL FELLOWS

IN TOXICOLOGY

For a period of two years.

The aim of our project is to develop sensitive techniques for measuring human exposure to dietary contaminants for risk evaluation. In order to do these studies, you will have to develop analytical methods for measuring DNA and protein adducted with carcinogens. In conjunction, routes of metabolism of xenobiotics will be needed to be elucidated by enzymatic and spectroscopic means.

The successful candidate holds a Ph.D. with a good publication record in the area of xenobiotic metabolism and a solid background in organic and analytical chemistry, and 32p-postlabelling of DNA.

Please send your application with curriculum vitae and three names for reference purposes to Mrs. M. Germanier Audrin, Personnel Services, Nestlé Research Centre, P.O. Box 353, CH-1800 VEVEY, Switzerland.

POSTDOCTORAL SCIENTIST

Thrombosis Research

The Upjohn Company, a recognized leader in pharmaceutical research, development and marketing, is seeking applicants for a two-year, postdoctoral position in our Cardiovascular Diseases Research Group. The successful candidate will study the contributions of the monocye-macrophage to the thrombogenic state of atherosclerotic blood vessels and will work with a multi-disciplinary team in identifying products of these cells that promote procoagulant responses of vascular endothelium and smooth muscle cells. Studies will involve the use of cell culture, protein isolation and characterization, molecular biology, immunohistochemistry, electron microscopy and animal models.

Qualified applicants will have a recent Ph.D. in biochemistry, pharmacology, or a related science. Experience in cell culture techniques, protein purification, antibody production, and immunoassays is highly desirable. Direct experience with the biology of endothelial cells and/or monocytes-macrophages, or in the area of coagulation biochemistry would be most beneficial.

Upjohn offers very competitive compensation and benefits programs in addition to a stimulating multi-disciplinary research environment at our modern laboratories located in Kalamazoo, Michigan. For confidential consideration, please forward your CV/resume to THE UPJOHN COMPANY, CORPORATE RECRUITING, KALAMAZOO, MI, 49001-9988, or materials may be faxed to 616/329-5525. Refer to Position No. 5637-BA/Cardiovascular in your correspondence. An Equal Opportunity Employer M/F.

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IMMUNOTOXIN RESEARCH
Positions are available for POSTDOCTORAL scientists interested in developing novel modes of cell-targeted therapy. A strong background in biochemistry, immunology, and cell biology is required, as the work encompasses diverse areas, including the development of monoclonal antibodies, mechanisms of cellular interactions, and understanding the immune responses to toxic agents. Boston offers opportunities for learning, culture, sports, and recreation.

Send curriculum vitae and references to:

Dr. Vic Rao
Boston Biomedical Research Institute (BBRI)
2600 Science Drive
Boston, MA 02114

BBRI is an Equal Opportunity/Affirmative Action Employer.

SENIOR RADIOPHYSICIST: Responsible for developing, testing, and interpreting radiolabeled small molecular imaging probes. The individual will be expected to supervise and train graduate students and postdoctoral fellows. Current projects include: development of radiotracers for PET imaging of cancer, inflammation, and Alzheimer's disease; development of positron emission mammography; and development of novel radiolabeling technologies. Ph.D. in medical physics or a related field is required. Send curriculum vitae and three letters of recommendation to: Dr. Raymond J. Karp, Division of Radiology and Nuclear Medicine, University of Pennsylvania, Philadelphia, PA 19104-6099. Equal Opportunity Employer. The University of Pennsylvania does not discriminate.

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Call for Abstracts

FOURTH ANNUAL NORTH AMERICAN & 1990 INTERNATIONAL CYSTIC FIBROSIS (CF) CONFERENCE

Crystal Gateway Marriott
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A multidisciplinary conference for researchers, physicians, and allied health professionals on the latest advances in CF research and care.

Program Chairmen
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Plenary Sessions: The CF Gene One Year Later • Multidisciplinary Approach to Pancreatic Disease • Immunopathology & New Approaches to Therapy

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Conference proceedings will be published as a supplement to Pediatric Pulmonology. Travel stipends will be awarded to overseas presenters of published abstracts. ABSTRACT DEADLINE: MAY 1, 1990

For abstract forms and registration materials, contact the

Cystic Fibrosis Foundation
6931 Arlington Rd.
Bethesda, MD 20814
ATT: Caroline McPherson
(301) 951-4422

Postdoctoral Positions Available

Laboratory of Molecular Genetics
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Postdoctoral and Staff Fellowship research positions are available immediately to study the regulation of mammalian stress response genes, and genes associated with negative growth control including:

1) Regulation of heat shock protein expression in-vivo,
2) Transcriptional regulation of newly isolated mammalian genes induced by DNA damage and growth arrest, and
3) Regulation of a novel antiproliferative gene.

Experience in molecular biology is desirable, but not essential.

Starting salary commensurate with qualifications and experience. Interested candidates should submit curriculum vitae to:

Nikki J. Holbrook, Ph.D., Senior Investigator
David Danner, M.D., Ph.D.
Gerontology Research Center
National Institute on Aging
4940 Eastern Avenue
Baltimore, Maryland 21224

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ROCKEFELLER FOUNDATION
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The Rockefeller Foundation announces a program of career development fellowships designed to enable scientists from developing countries, trained at outstanding centers for advanced research in biotechnology, to continue to work at those or other institutions for three months each year, over a period of at least three years, conducting advanced research and keeping abreast of new developments in their fields. The program will focus upon the development and application of advances in molecular and cellular biology and immunology relevant to agriculture, health, and reproductive biology.

Funding will be shared between the Foundation and the host laboratory, with the Foundation providing travel and per diem support. It is hoped that the fellowships will encourage the establishment of ongoing working relationships between outstanding younger scientists working at third world institutions, and research teams at advanced laboratories.

Applicants to this program should have at least Ph.D.- or M.D.-level training, a proven record of scientific productivity, and a permanent position at a research or teaching institution in their home country. A written project proposal must be developed and submitted jointly by the candidate and the laboratory sponsor.

Information about application procedures can be obtained by writing to Biotechnology Career Fellowships, Fellowship Office, Rockefeller Foundation, 1133 Avenue of the Americas, New York, New York 10036, USA.
FELLOWSHIPS

POSTDOCTORAL FELLOWS. The Westinghouse Savannah River Company has immediate openings for two postdoctoral fellows in the Environmental Sciences Section of the Savannah River Laboratory. These openings are for 1-year contracts, which are renewable. The fellowship, which includes an annual stipend of $32,000, requires: Ph.D. in soil microbiology or microbial ecology. Preference will be given to those with experience in any of the following areas: molecular biology, bioremediation, biocorrosion, study of contaminated groundwaters or soils, and/or biodegradation of xenobiotics. Candidates must qualify as Oak Ridge Associated Universities postdoctoral fellows,夏季 allow exceptions to this requirement. Salary is commensurate with your training and experience. For confidential consideration, please send résumé and salary history to: Dr. T. E. H. C. R. H. E. N. Environmenta1 Sciences Section, Savannah River Laboratory, Westinghouse Savannah River Company, Aiken, SC 29808-0001. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS in hyperthermia biology, radiobiology, and radiopharmaceutical chemistry. Four positions available immediately at the Thomas Jefferson University (TJU) Hospital. Ph.D., M.D., or D.V.M., or equivalent required. Areas of interest: • Relationship of heat-induced structural lesions in cytoskeletal, nuclear matrix/chromatin complex and mitotic apparatus to cell viability and potentially lethal damage in synchronous mammalian cells (R. A. Cosi, Ph.D.). • Induction of DNA damage, chromosome damage (PC2) and potentially lethal damage and their repair after ionizing radiation, nonexcipient cell sensitizers, and/or hyperthermia in mammalian cells and in repair deficient mutants (G. Blakely, Ph.D.). • Relationship of protein and RNA synthesis to thermodetorencement and decay, hyperthermia cytotoxicity and/or cytokinesis in mammalian cells (D. B. Loper, Ph.D.). • Radiopharmaceutical studies of organometallic chemistry, radiolabeled chemical compounds and synthesis of novel molecules for diagnostic or therapeutic applications in oncology (M. I. Thakur, Ph.D.). Salary: $20,000 + depending on experience. Applicants must be U.S. citizens or permanent residents. Send résumé, names of three references, and indicate investigator of preference to: Dennis B. Loper, Ph.D., Professor and Director, Laboratory of Experimental Radiation Oncology, Department of Radiation Oncology and Nuclear Medicine, Thomas Jefferson University, Philadelphia, PA 19107. Telephone: 215-573-4411. This position is open to qualified residents, fellows, and postdoctoral fellows.

TO THE JOHNS HOPKINS UNIVERSITY SCHOOL OF HYGIENE AND PUBLIC HEALTH OCCUPATIONAL HYGIENE FELLOWSHIP A private sector corporation has provided support for an outstanding applicant for the doctor of philosophy degree. The candidate should be interested in a university research and teaching career. Applicants please submit inquiries to: Dr. Morton Corn Department of Environmental Health Sciences The Johns Hopkins University School of Hygiene and Public Health, Room 6010 615 North Wolfe Street Baltimore, MD 21205.

MOLECULAR BIOLOGIST Applications are invited for a research position in molecular genetics of cancer at the POSTDOCTORAL FELLOWSHIP level. Outstanding laboratory facilities and stimulating group and institutional environment. Areas of active research include: radiation and immunomodulation of genes which predispose to cancer and study of gene deregulation and amplification in tumor cells. Ph.D. in genetics or biochemistry required. Selection is independent in molecular biology at the bench level are essential. Apply with curriculum vitae and names of three references to: Dr. R. S. K. C. G. Amphlett, Member and Professor, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. Telephone: 212-639-8121.

FELLOWSHIPS

POSTDOCTORAL FELLOW. Investigations of al- terations in vascular protein synthesis in aging and disease require the experience of a scientist with a strong background in biochemistry/immunochemistry. Write: H. F. Fillit, M.D., The Laboratory for Immunology and Aging, Deborah Medical Center, Box 310, The Mount Sinai Medical Center, One Gustave L. Levy Place, New York, NY 10029-6874, or telephone: 212-241-4274. An Equal Opportunity Employer.


POSTDOCTORAL FELLOW. Position open to study systemic and renal hemodynamics and changes in vasoactive humoral substances before and after altered distributions in renal and mesenteric blood flow. Areas of interest: • Development of renal microangiography or pharmacology required. Position is for 2 years of support; salary is negotiable. Closing date: 1 May 1990. Submit curriculum vitae, two letters of reference, and application to: Dr. Terry C. Johnson, Associate Professor of Radiology, University of Minnesota, 3101 Delaware Avenue South, Minneapolis, MN 55455. An Equal Opportunity/Affirmative Action Employer.

INTERNATIONAL CANCER RESEARCH FELLOWSHIP The Hayashiara Foundation, a nonprofit organization within the Hayashiara Group, announces a fellowship program. Fellowships will be taken up at the Fujisaki Cell Center, which is devoted to basic and applied research related to the problems in human cancer. The fellowship is normally for 1 year and renewable for up to 5 years. The fellowship will be expected to commence within 6 months of the announcement of the awards. No fixed deadline for application is set throughout the year. The awards are for high quality research work in one of three categories: • Fundamental leukemia/lymphoma research • Cytokine/lymphokine research • Hematoepoietic cell lines Qualified persons who hold a Ph.D., M.D., or equivalent qualifications should send additional information and application forms from: Jun Minowada, M.D., Director, Fujisaki Cell Center, 675-1, Fujisaki, Okaya 705, Japan.

SITUATIONS WANTED


Ph.D. desires upper management position in commercial biotechnology/diagnostics. Management experience: product development, technology transfer, DNA probe diagnostics, quality assurance. Box 21, SCIENCE.

ANNOUNCEMENTS

THE EXTRACELLULAR MATRIX AND THE REPRODUCTIVE TRACT SYNTHESIS, DEGRADATION, AND HORMONAL REGULATION 13 TO 16 MAY 1990 UNIVERSITY OF ROCHESTER For information, contact: Continuing Professional Education, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642; Telephone: 716-275-4392, 8:00 a.m. to 4:30 p.m., Monday through Friday.

COURSES AND TRAINING

CAREER CHANGE OPPORTUNITY This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain a Doctor of Osteopathic Medicine degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: Dr. D. C. Byers, Program Director, Certified Program, The New England College of Osteopathy, Room 5, 424 Beacon Street, Boston, MA 02115.

METHODS IN COMPUTATIONAL NEUROSCIENCE—5 August to 1 September 1990. This intensive, advanced lecture and laboratory course presents the basic techniques necessary to study single cells and neural networks using simulation software developed at the California Institute of Technology. Limited to 20 students. Co-directors: James M. Bower and Christof Koch, California Institute of Technology. Application deadline: 15 May 1990. For further information and application forms, contact: Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02545. Telephone: 508-548-3705, ext. 216.

MEETINGS

INTERNATIONAL CONFERENCE MOLECULAR GENETICS OF SEX DETERMINATION 30 APRIL TO 2 MAY 1990 HOTEL MERIDIAN, 614 CANAL STREET NEW ORLEANS, LOUISIANA Sessions on genetics of ZY, ZY, ZY, male and female pseudosexualism, androgen insensitivity, maleri- an development and intersexuality, XX male syndrome and true hermaphroditism, sexual development, and genetics of the Y chromosome in mouse and human, X-inactivation, etc. Speakers include: M. New, M. Zachmann, L. Pinsky, N. Jaffe, A. de la Chapelle, J. L. Simpson, C. Bihou, U. Müller, N. Affara, H. S. Chanda, M. Fellous, U. Wolf, A. McLaren, C. Nagamine; and others. Contact: Dr. Stephen Wachtel, CDD S-10, University of Tennessee, Memphis, 711 Jefferson Avenue, Memphis, TN 38105. Telephone: 901-577-8455.


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