POSITIONS OPEN

CELLULAR PHYSIOLOGIST
University of Tennessee, Knoxville (UTK)
The Department of Zoology, University of Tennessee, Knoxville, invites applications for a tenure-track position at the level of ASSISTANT PROFESSOR, effective 1 August 1993. The successful candidate will be expected to develop a vigorous and externally funded research program in Cellular Physiology. A Ph.D. (or equivalent) and at least one year of postdoctoral experience is required. The successful candidate will be expected to supplement the M.S. program in the teaching of undergraduate and graduate courses in cell, systems, and comparative animal physiology. Applicants are requested to submit curriculum vitae, statement of research goals, statement of teaching interests, and should arrange to have three letters of recommendation sent to: Dr. Gerald L. Vaughan, Department of Zoology, University of Tennessee, Knoxville, TN 37990-0810; (Telephone: 615-974-2871; FAX: 615-974-0978).

Review of applications will begin on 15 January 1993. UTK is an Equal Employment Opportunity/Affirmative Action/Title IX/Section 504/ADA Employer.

CELLULAR ENDOCRINOLOGIST
University of Arizona
The Departments of Physiology and Obstetrics and Gynecology (ObGyn) are jointly seeking a tenure-track ASSISTANT PROFESSOR. Preference will be given to applicants with research experience in reproductive endocrinology, using the techniques of molecular biology. The tenure line will be in Physiology. Successful candidates should have experience and must document their potential to develop an independent research program in reproductive endocrinology. The development of research programs and contributions to journals in ObGyn is essential and university-wide interactions are encouraged. Teaching responsibilities will include formal lectures on cellular and systems endocrinology, tutorial instruction, and participation in a university-wide Ph.D. program in the physiological sciences. Submit curriculum vitae and statement of research interests and support letters sent to: Dr. Patricia B. Hoyer, Cellular Endocrinologist Search Committee, Department of Physiology, College of Medicine, University of Arizona, Tucson, AZ 85724. To insure consideration, applications should be submitted by December 31, 1992; however, applications will be accepted until the position is filled. The University of Arizona is an Affirmative Action/Equal Opportunity Employer and applications from females and minority group members are strongly encouraged.

ASSISTANT PROFESSOR BIOCHEMISTRY
Western Michigan University seeks applications for a tenure-track assistant professor position in chemistry for Fall 1993. The position requires a Ph.D. degree in biochemistry, an undergraduate degree major in chemistry, the completion of a postdoctoral appointment with research in a field applicable to the environment, e.g., toxicology, and demonstrated potential for teaching, research, and publication. Western Michigan University, a Carnegie Classification Doctoral I Institution, has embarked upon a vigorous affirmative action program and encourages applications from women and members of minority groups. Send letter of application, curriculum vitae, academic transcripts and three letters of recommendation to: Michael McCarthy, Chair, Chemistry Department, Western Michigan University, Kalamazoo, MI 49008-3842. Review of applications will begin December 1, 1992 and continue until the position is filled.

PLANT BIOLOGIST, EARLHAM COLLEGE, ASSISTANT PROFESSOR, for a one-year sabbatical replacement beginning September 1993. Teaching responsibilities may include plant structure/function, microbiology, cell biology, and involvement in team-taught introductory courses. Ph.D. required. Submit letter of application, curriculum vitae, and three letters of recommendation to: Robert M. Bishop, Department of Biology, Earlham College, Richmond, Indiana 47374. Review of applications will begin on January 1, 1993. Women and minorities are especially encouraged to apply. Earlham College is an Equal Opportunity/Affirmative Action Employer.

TROPICAL ECOLOGIST
The Department of Biology at the University of Missouri-St. Louis seeks a tenure-track assistant professor position in the area of tropical ecology and conservation. Responsibilities for the position include teaching in the candidate's area of expertise, and administrative service associated with the title of Associate Director of the International Center for Tropical Ecology. Priority will be given to candidates with: research interests in avian ecology, a strong history of experience in program development, and an ability to interact with international graduate students. Teaching may include ornithology, an undergraduate course in ecology for nonmajors, and a graduate course. Ph.D. and two or more years of postdoctoral experience are required. Applicants should submit the following materials: letter of interest, curriculum vitae, statement of research, selected publications, and three names of references to: Dr. Victoria Sork, Search Committee Chair, Department of Biology, University of Missouri-St. Louis, 8001 Natural Bridge, St. Louis, MO 63121-4499. Applications will be reviewed as they arrive. FINAL DEADLINE: 15 January 1993.

The University of Missouri-St. Louis is an Affirmative Action/Equal Opportunity Employer committed to excellence through diversity.

PHYSIOLOGIST
Tenure-track position, ASSISTANT PROFESSOR, beginning Fall 1993, for a highly qualified and established investigator in an extramurally funded research program. Special consideration given to broadly trained applicants who use modern approaches to study physiological processes at integrative or organismal levels. Teaching includes participation in core undergraduate physiology and graduate specialty courses. Generous research set-up funds available. To apply, send curriculum vitae, repris, description of research plans, and three letters of recommendation by January 15, 1993. Send to: Dr. Charles Drewes, Physiology Search Committee, Department of Zoology and Genetics, Iowa State University, Ames, IA 50011.

BOTANIST: Western Washington University Biology Department seeks a position at ASSISTANT or ASSOCIATE PROFESSOR level to begin fall 1993; Ph.D. required. We prefer expertise in systematic, but inviting applications from interested botanists. The Department stresses excellence in graduate teaching. Duties include teaching introductory plant biology, advanced courses in the area of expertise, and general curricular courses. Application materials must include a research plan which can establish a research program at WWU involving students is expected. Send curriculum vitae, a statement of teaching and research plans, and recent reprints to: Craig Howes, Department Chair, Western Washington University, Bellingham, WA 98225-9060, Telephone: 206-676-3627; FAX: 206-676-3148. Review will begin on January 18, 1993. An Affirmative Action/Equal Opportunity Employer.
Training And Research Opportunities.

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

**Cancer Epidemiology**  
**Joseph F. Fraumeni, Jr., MD**

Opportunities for research in epidemiology include studying the role of occupation, radiation, diet/nutrition, genetics, infectious agents, lifestyle factors, medications, and environmental pollution in the development of cancer. Research opportunities in biostatistics and methods development are also available. Applications are accepted on a continuing basis from candidates with a variety of academic, clinical and research backgrounds. Epidemiology and Biostatistics Program (OE-22), NCI, Executive Plaza North, Room 543.

**Cell Division and Proliferation**  
**Shelby L. Berger, PhD**

Positions in biochemistry and cell or molecular biology are available to study the dynamic aspects of chromatin function. Emphasis is on a human acidic protein essential for cell division. The project involves gene transfection and expression, mutagenesis, antisense, phosphorylated proteins and peptides, chromatin structure, and cell cycle-related functions. Laboratory of Biochemistry (OE-22), NCI, Building 10, room B1B38.

**Electron Paramagnetic Resonance Spectroscopy**  
**Ronald P. Mason, PhD**

Staff Fellow (assistant professor equivalent) position is available in the Free Radical Metabolite Workgroup. Measurements of 	extit{in vivo} and 	extit{in vitro} samples are made using Electron Paramagnetic Resonance (EPR) spectrometers interfaced with computers for studies in biochemistry, pharmacology (especially drug metabolism) and toxicology. Candidates should have at least five years experience with EPR, experience in free radical and transition metal chemistry, a strong computational background, and no more than seven years of postdoctoral research experience. Laboratory of Molecular Biophysics (OE-22), NIEHS, P.O. Box 12233, Mail Drop 10-03, Research Triangle Park, NC 27709.

**Gene Regulation During Metamorphosis**  
**Yun-Bo Shi, PhD**

The molecular mechanism of amphibian metamorphosis, a process that affects every organ of a tadpole, is being investigated. The process is entirely controlled by thyroid hormone and many thyroid hormone response genes have been identified. The regulation and the functions of these genes during metamorphosis are being studied. Laboratory of Molecular Embryology (OE-22), NICH, Building 6, Room B1A02.

**Neurophysiology**  
**Vittorio Gallo, PhD and Mark Mayer, PhD**

Ligand-gated ion channels in glial cells are being studied using patch-clamp recording combined with fast-perfusion techniques. Cell culture and tissue slice preparations are used as model systems. Research would be integrated with a group of cellular and molecular biologists working on glia. Background in neurophysiology is preferred and experience in patch-clamp recording is required. Laboratory of Cellular and Molecular Neurophysiology (OE-22), NICH, Building 36, Room 2A21.

**Retroviral Oncogenesis**  
**Donald G. Blair, PhD**

A murine retroviral model is used to study the role of the nuclear oncogene myb and members of the et genes family in oncogenesis and growth regulation of both hematopoietic and non-hematopoietic cells. Individuals with molecular biology and recombinant DNA experience are sought to utilize retroviral vector systems in the characterization of the oncogenic effects of myb and et, and the identification of their cellular targets, and in the study of suppressors of oncogene-mediated transactivation. Laboratory of Molecular Oncology (OE-22), NCI-FCRDC, P.O. Box B, Building 469, Room 117, Frederick MD 21702-1201.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings you may access the NIH EDNED Bulletin Board’s POSTDOC conference via modem (1,3014922221 or 1,8003582221). The settings for modem access are "7,Even,1". When connected to NIH, type in "vt100" at the connect message, "F5E" at initial, and "AJL1" at account. Those interested in receiving information on other postdoctoral opportunities in NIH research laboratories, as well as information on clinical training opportunities, may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

**To Apply**

If you hold a PhD, MD, or equivalent degree and would like to be considered for one of these positions, please send a cover letter, curriculum vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.

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National Institutes Of Health

9000 Rockville Pike, Bethesda, MD 20892

Equal Opportunity Employer
POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGY/ASSISTANT CURATOR IN INVERTEBRATE ZOOLOGY
Harvard University

The Department of Organismic and Evolutionary Biology of Harvard University seeks to make an appointment of a systematist with expertise on a group of living invertebrates of interest to the department. The successful candidate will be expected to interact with, and teach, students at the graduate and undergraduate levels and will be expected to fulfill curricular responsibilities for part of the collection of invertebrate animals in the Museum of Comparative Zoology.

Applications should send a statement regarding their research and teaching interests, curriculum vitae, and copies of representative publications by 1 January 1993; three letters of recommendation should also be sent to: Professor R. J. Boss, Department of Organismic and Evolutionary Biology, 26 Oxford Street, Cambridge, MA 02138.

Harvard University is an Equal Opportunity/Affirmative Action Employer. We encourage applications from women and minority groups.

FACULTY POSITION

POPULATION OR COMMUNITY ECOLOGY
The University of Oregon invites applications for a tenure-track faculty position as ASSISTANT PROFESSOR in the Department of Biology. The appointment will be in the Ecology and Evolution Group, which has strengths in population and quantitative genetics, evolution, microbial ecology, and conservation biology. Although the ecology of special interest is not specified, we encourage applications in any area of population or community ecology. We seek candidates whose research combines theoretical, experimental, with evidence of excellence in teaching at the undergraduate and graduate levels. Application deadline is January 15, 1993. Applicants should send curriculum vitae with a statement of research interests and commitment to excellence in teaching at the undergraduate and graduate levels. Applications are invited for a tenure-track position at the rank of ASSISTANT PROFESSOR. Applicants should send curriculum vitae, a statement of teaching and research interests, and three letters of recommendation to: Ecology Search Committee, Department of Biology, University of Oregon, Eugene, OR 97403. The University of Oregon is an Affirmative Action/Equal Opportunity Institution.

CELLULAR/MOLECULAR NEUROSCIENCE
Two of fourteen state-funded, tenure-track faculty positions are available for appointment at the ASSISTANT PROFESSOR level with a start date on or before July 1993. The University of New Hampshire seeks an investigator interested in cellular and/or intra-cellular signaling mechanisms and/or gene expression/regulation in adult or developing nervous systems. The successful candidate will be supported by the opportunities offered by our integrative focus on collaboration in the areas of molecular, behavioral and human cognitive neuroscience are encouraged to apply. State-of-the-art laboratories, a library and computer facilities are available in the New Hampshire Space Research Center on the Dartmouth-Norwich campus. The campus is in close proximity to and with joint appointments possible in the Institute of Animal Behavior and the Departments of Psychology, Chemistry and Biological Sciences at Rutgers, and the nearby School of Medicine. New Hampshire is close to both New York City and attractive New Jersey countryside living. Interested neuroscientists should send curriculum vitae, three letters of references and a brief letter of research goals and philosophy to: Dr. Ian Creese, Center for Molecular & Behavioral Neuroscience, 197 University Avenue, Newark, NJ 07103. The University of New Hampshire is an Affirmative Action/Equal Opportunity Employer.

MARINE BIOLOGIST, tenure-track ASSISTANT PROFESSOR
beginning August 1993. Successful candidate will teach undergraduate/graduate courses, direct graduate students, and maintain active research program. Preference will be given to individuals with interests in molecular/ systematics or evolutionary biology, particularly employing molecular techniques. Ph.D. and postdoctoral experience required. Send curriculum vitae, statement of teaching/research interests, graduate transcripts, and names of 3 references by 15 January 1993 to: Dr. Paul E. Haxton, Department of Biological Sciences, University of North Carolina at Wilmington, Wilmington, NC 28403-3297. UNC Wilmington is an Equal Opportunity/Affirmative Action Employer.

BIOLOGY: ASSISTANT PROFESSOR with speciality in plant science, beginning September, 1993. Tenure-track position. Research reactivities include teaching plant science, nonmajors introductory biology and electives in specialty area; and supervision of plant physiology laboratory, greenhouse complex and new plant science facility. Candidate must be willing to develop an undergraduate research program. Send letter of application, resume, transcripts, and three letters of reference by December 10, 1992 to: Dr. Robert A. Zaccaria, Chairman, Department of Biology, Lycoming College, Williamsport, PA 17701.

SCIENCE EDUCATION, LIFE SCIENCE
ASSISTANT PROFESSOR, tenure-track position, September 1, 1993. Doctorate in Biology or Science Education required. Teaching responsibilities include teaching introductory biology and ecology of life on Earth. Excellent opportunity to interact with and educate general education biology majors, and direct undergraduate teaching. Teaching responsibilities expected to include laboratory, and general education courses. Send curriculum vitae, statement of teaching and research interests, and three letters of recommendation by February 1, 1993 to: Dr. David A. Ophir, Chair, Department of Biology, Santa Cruz University, 9001 Steckle Road, Bakersfield, CA 93311-1099. California State University, Bakersfield is an Equal Opportunity, Affirmative Action Employer.

ASSISTANT PROFESSOR—BIOCHEMISTRY: Continuing position to start August 1993 at small, public, liberal arts honors college, 68 miles southeast of Washington, D.C. in Maryland. Ph.D. in chemistry or biochemistry with a B.S./B.A. in chemistry preferred, and be committed to undergraduate teaching. Teaching responsibilities include biochemistry and related areas such as bioenergetics, and cell biology. Applicants should have teaching experience at the undergraduate level, and direct undergraduate research. Candidate must be committed to excellence in teaching and research. Send curriculum vitae, statement of research interest and teaching philosophy, and name and address of three references. Send materials to: Professor W. E. Hovland, Biochemistry and Biophysics, 1801 College Parkway, Winthrop University, Rock Hill, SC 29733 by December 1, 1992. Winthrop University is an Equal Opportunity/Affirmative Action Employer.

WILDLIFE ECOLOGIST, ASSISTANT PROFESSOR
University of Missouri, St. Louis, assistant professor, starting: 15 August 1993, required to have experience in wildlife management/applied biostatistics. Deadline: 15 January 1993. Submit curriculum vitae, transcripts, a description of teaching and research interests, and three letters of recommendation to: Dr. Stan Trauth, Chair, Department of Agriculture & Natural Resources, University of Missouri, Columbia, MO 65201. The University of Missouri is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR GENETICS
Applications are invited for a tenure-track position at the University of Missouri, Columbia. The successful candidate's research interests include experimental and theoretical approaches to unraveling the molecular genetic mechanisms that control gene expression. Applicants should have a Ph.D. in genetics or a related field. They should have an active research program and be committed to excellence in teaching. Send curriculum vitae, a statement of research interests, and three letters of recommendation to: Dr. David A. Ophir, Chair, Department of Biology, Santa Cruz University, 9001 Steckle Road, Bakersfield, CA 93311-1099. California State University, Bakersfield is an Equal Opportunity, Affirmative Action Employer.

POSITIONS OPEN

FUNCTIONAL MORPHOLOGY/BIOMECHANICS
The Department of Biology at Wake Forest University invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. We especially invite applications from minority candidates. Required qualifications include a Ph.D. with training and experience in the area of functional morphological. The successful candidate will be expected to establish a strong research program, to participate in the training of graduate students, and to develop undergraduate course offerings in the departmental core curriculum is expected. Knowledge and experience teaching in the departmental core curriculum is expected. Knowledge and experience teaching in the departmental core curriculum is expected. Knowledge and experience teaching in the departmental core curriculum is expected. We are especially interested in those concerned with teaching, as well as research, please include a statement concerning your research interest and teaching interests together with curriculum vitae. Application materials and three letters of recommendation should be sent to: Dr. R. E. Kuhn, Search Committee, P.O. Box 7325, Wake Forest University, Winston-Salem, NC 27109. Applications must be received by 1 January 1993. Wake Forest University is an Equal Opportunity Employer.

FACULTY POSITION, Molecular Biology of Infectious Diseases, The Department of Microbiology, the Colorado State University invites applications for a ten-ure-track ASSISTANT or ASSOCIATE PROFESSOR position to add to our research activities in the area of infectious diseases. Post-associate positions are available for individuals with expertise in the molecular biology of bacteria, viruses, or other parasitic microorganisms. Interested candidates should possess the following qualifications: a Ph.D. in the area of molecular biology, and must be interested in teaching and research activities in this area. Applicants should send curriculum vitae, a statement of research interests, and a list of at least three references, to: Dr. Ian Orme, Search Committee, Department of Microbiology, Colorado State University, Fort Collins, CO 80523, Telephone: 303-491-5777 by December 31, 1992. Colorado State University is an Equal Opportunity/Affirmative Action Employer.

MARINE COMMUNITY ECOLOGY: The Department of Biological Sciences, University of California, Santa Barbara invites applications for a tenure-track position, at the ASSISTANT OR ASSOCIATE PROFESSOR level, beginning July 1, 1993. The appointment is for a 9-month academic year appointment, effective July 1, 1993. The University of California is an Equal Opportunity/Affirmative Action Employer. Directions to the University of California is a distinguished individual for this professorship. The appointment will most likely be made at the tenured, full professor level in the Department of Psychology, which has both undergraduate and graduate programs, however, the appointment would be expected to foster interactions with other researchers in the Psychology Department and other schools, such as in computer science and engineering, including the new School of Biology, Computer Science, and Engineering, which is expected to be housed in a new building on campus. Applications should be sent to: Professor P. Schumacher, Search Committee, Department of Psychology, University of California, Santa Barbara, USA 93106, by December 31, 1992. The University of California is an Equal Opportunity/Affirmative Action Employer.
How to solve the equation for success.

The field of pharmaceuticals and healthcare is more rewarding than ever as new products create a healthier world population. As one of the leaders in this dynamic industry, Pfizer Inc., a Fortune 100 company, is committed to continuing this remarkable growth.

The primary R&D facility for Pfizer Inc. is located in a Southeastern Connecticut shore community, offering the attractions of a New England lifestyle and giving easy access to the well-known academic and cultural centers of the Northeast.

Our rapidly expanding Drug Metabolism Department is currently seeking highly motivated PhD Research Scientists and BS/MS Research Assistants.

**Drug Metabolism/Pharmacokinetics**

**Research Scientists, PhD**—You will interact in a project area with a multidisciplinary team including chemists, biologists and clinicians where pharmacokinetics and drug metabolism input is essential to the discovery and development of new drugs. Additionally, you will work with some of the most advanced equipment and support systems available. Publication of original research encouraged.

Requires a PhD in Pharmacology, Biochemistry, Pharmaceutical Chemistry or Pharmacokinetics, preferably with postdoctoral training or previous experience. Practical experience with bioanalytical methods and biotransformation of drugs is highly desirable. Working knowledge of pharmacokinetics and drug transformation is preferred. Must be highly creative and possess superior interpersonal and communication skills.

**Research Assistants, BS/MS**—You will participate in drug discovery and development by investigating the pharmacokinetics and *in vivo* and *in vitro* metabolism of new pharmaceutical candidates. Advanced analytical and biochemical techniques will be used in your research.

Requires a BS/MS in biological or chemical science and an interest in the *in vivo/in vitro* metabolism and disposition of drugs. Relevant experience in the development of quantitative analytical methods for drugs in biological matrices, pharmacokinetics, metabolite isolation and identification, and electronic data handling is highly desirable.

We offer competitive salaries and a full range of benefits including medical and dental insurance, paid holidays and vacation, educational assistance, savings and investment plan, pension plan, relocation assistance and more. To learn how you can be a part of the future of Pfizer, send your resume to: Dr. Ken R. Harewood, Manager, Employee Resources, Pfizer Inc., Central Research Division, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.
MDC
MAX-DELBRÜCK-CENTRUM
FÜR MOLEKULARE MEDIZIN
BERLIN-BUCH

In January 1992 a new national research center, the Max-Delbrück-Center for Molecular Medicine (MDC), was founded in Berlin-Buch. Close cooperation between basis sciences and clinical research has been established between the MDC and the Franz-Volhard Clinic for Cardiovascular Medicine and the Robert-Rössle Cancer Research Clinic, both integral parts of the Free University of Berlin.

The new center will focus on the following areas:

- Molecular genetics of the cardiovascular system and cancer, genome analysis
- Molecular epidemiology in cardiovascular and cancer research
- Biomathematics, statistics, and gene data library
- Cell biology (developmental biology, cell growth regulation, protein transport, enzymology)
- Experimental and molecular research in cardiology, hypertension, and nephrology
- Experimental and molecular research in cancer therapy, humoral, and cellular immunotherapy
- Cellular and molecular neurosciences
- Genetherapy

Qualified scientists with an established scientific record and a strong interest in cooperative biomedical research are now invited to apply for positions as:

RESEARCH GROUP LEADER (C4, BAT I)

and

ASSOCIATE RESEARCH GROUP LEADER (BAT lb/la)

Interested individuals should submit the usual credentials as well as a detailed description of their research interests within 4 weeks after appearance of this advertisement to:

Detlev Ganten, MD, PhD, Max-Delbrück-Center for Molecular Medicine, Robert-Rössle-Strasse 10, O-1115 Berlin-Buch, Germany.
Human Genome Sciences

Human Genome Sciences, Inc. (HGS) is a new biopharmaceutical company engaged in the discovery and development of gene/protein-based pharmaceuticals and diagnostic markers for human disease. Research efforts will be achieved through the application of state-of-the art cDNA sequence analysis, gene mapping, computational biology and gene expression. HGS scientists will work in a collaborative environment with its sister organization, The Institute for Genomic Research, a new, not-for-profit research center devoted to accelerating the sequencing, mapping and functional characterization of human, animal and plant genomes. The initial research efforts at HGS will lie within the areas of Hematopoiesis, Inflammation, Cancer Biology and Neurodegenerative Disease. We are currently seeking to fill the following openings:

• **Molecular Biology •**
  
  **Research Scientists/Research Associates/Post Doctoral Fellows**
  Develop new approaches towards cDNA library construction, rapid isolation and characterization of full length cDNA clones and functional analysis of gene products through protein expression. Applicants should have a background in one of the research areas and have expertise in molecular biology and biochemistry.

• **Gene Expression & Protein Purification •**
  
  **Director/Research Scientists/Post Doctoral Fellows/Research Associates**
  Develop rapid methods for expression and purification of recombinant proteins from cDNAs. Experience in one of the research areas is preferred. The ideal applicant should possess broad base skills and have familiarity with prokaryotic, mammalian and baculovirus gene expression systems.

• **Cell Biology •**
  
  **Director/Research Scientists/Research Associates**
  Development of improved cell lines and assay systems within one of the research areas. Expertise in developmental biology and experience with in situ hybridization preferred. Preference will be given to applicants with knowledge in one of the following areas: receptor biology, signal transduction, protein kinases and phosphatases.

• **Physiology/Immunology •**
  
  **Research Scientists/Research Associates/ Post Doctoral Fellows**
  Determine the physiological and immunological clinical relevance of newly identified gene products. Several projects will involve monoclonal antibody technology.

• **Computational Biology •**
  
  **Research Scientists/Postdoctoral Fellows**
  Develop methods, algorithms, and software for data analysis and management, laboratory robotics and interactive simulation and design. Experience in comparative sequence analysis, structure and function prediction is preferred.

**Directors:** Requires PhD/MD and a minimum of 8-10 years experience, a record of independent scientific leadership and accomplishments, supervisory background and excellent communication skills.

**Research Scientists:** Requires PhD/MD and 3+ years postdoctoral training.

**Research Associates:** Requires BS/MS and experience in molecular or cellular biology.

In addition to a stimulating research environment, we offer a competitive compensation and benefits package and the amenities of both the metropolitan DC area and Maryland. Qualified applicants are encouraged to send a curriculum vitae and letter indicating position of interest to:

**Human Genome Sciences, Inc.**
**Human Resources Department**
**9620 Medical Center Drive**
**Rockville MD 20850**
**Fax #: (301) 309-8512**

HGS is an Equal Opportunity Employer
ASSISTANT/ASSOCIATE PROFESSOR


ASSISTANT/ASSOCIATE PROFESSOR


ANATOMY AND PHYSIOLOGY LAB INSTRUCTOR


Send letter stating position number, interests, detailed curriculum vitae, transcripts, and three letters of reference due prior to December 15, 1992 to: Sister John Karen Dunn, Director of Natural Sciences, Barry University, Miami Shores, FL 33161.

The Children's Hospital of Philadelphia and Department of Neuroscience, University of Pennsylvania invite applications for an ASSOCIATE PROFESSOR or PROFESSOR. This position is for a Ph.D. or M.D. with an international reputation in developmental neurobiology, independent funding, and skill in training junior investigators. Applications should be to: D. Pleasure, M.D., Neuroscience Research, Children's Hospital of Philadelphia, Philadelphia, PA 19104. Please include curriculum vitae, copies of 2 recent publications, and a statement of current and future research objectives. We are an Affirmative Action/Equal Opportunity Employer.

Rutgers University reopens its search for a SENIOR ECOLOGIST (FULL PROFESSOR) to direct a major program of ecosystems research and instruction in the New Jersey coastal zone. The position is based at the Camden Campus of Rutgers University and includes being Director of the Division of Pinelands Research in the University-wide Institute of Marine and Coastal Sciences. The applicant must demonstrate abilities to obtain funding, administer research, instruct upper division and graduate courses (one per semester), and work on interdisciplinary grant applications. Send curriculum vitae and three letters of reference to: Office of Provost Walter Gordon, Ecologist Search Committee, Rutgers University, Camden, NJ 08102. Closing date is January 31, 1993, or until position is filled. Rutgers University is an Affirmative Action/Equal Opportunity Employer.

The School of Medicine of the Health Sciences Center of the University of Missouri announces a search for the CHAIR OF THE DEPARTMENT OF MOLECULAR, PLANT & IMMUNE SCIENCES. Responsibilities include recruitment and retention of faculty, education of medical students, training of graduate students, and initiation of new exhibition of research. The position is to be filled by July 1, 1993 and requires an individual of high energy and creativity who has a productive research program, significant teaching abilities, and a strong commitment to professional development. Inquiries and applications should be addressed to: Dr. Hubert H. Edwards, Associate Dean for Research & Academic Affairs, University of Missouri School of Medicine, MA204 Medical Sciences Building, Columbia, MO 65212.
Chairman and Professor, Cardiothoracic Surgery
Tufts University School of Medicine/New England Medical Center Hospitals

Applications are invited for the position of Professor and Head, Division of Cardiothoracic Surgery, Tufts University School of Medicine, and Chairman, Department of Cardiothoracic Surgery, New England Medical Center Hospitals. We seek a candidate with the highest academic credentials who will be able to direct a vigorous multi-faceted department in an expanding academic Medical Center and leading Medical School.

Please send your curriculum vitae and supporting information to Dee N. Salem, M.D., Chief, Cardiology Division, Department of Medicine, New England Medical Center Hospitals and Tufts University School of Medicine, 750 Washington Street, NEMC #79, Boston, MA 02111-1845. An Equal Opportunity Employer.

New England Medical Center

Programmer
Cambridge, MA

Nissan has established its new Cambridge Basic Research facility in Cambridge, MA. This new research facility will be engaged in studies of visual perceptions that relate to driving.

We are currently seeking an individual familiar with Graphics workstations who can help create dynamic visual displays suitable for exploring the perceptions of time to impact, assessment of search tasks and cognitive loads on driving skills, collision avoidance of unexpected obstacles or pedestrians, etc. In addition, some networking and system development skills are desirable. Research experience is preferred.

Temporary assignments will be for 2-3 years, renewable. Nissan Research & Development, Inc. is the North American automotive development arm of Nissan Motor Co., LTD. Please forward resume and salary requirements to our North American Corporate Headquarters by January 1993:

CHEMISTRY FACULTY. The Department of Biology and Chemistry of Lake Superior State University is inviting applications for a limited-term position during fall 1993. Applicants should have a Ph.D. in chemistry, with strengths in analytical chemistry and instrumental analysis, and potential excellence in teaching. Interest and experience in environmental chemistry is desirable, but not essential. The position may involve teaching courses in general, analytical, and environmental chemistry, as well as supervision of undergraduate research projects. Rank and salary commensurate with experience.

Send application, curriculum vitae and arrange to have three letters of recommendation sent by January 4, 1993, to: Office of University Relations, Lake Superior State University, Administration Building, Sault Ste. Marie, MI 49783.


CHEMISTRY FACULTY. The Department of Biology and Chemistry of the George Washington University School of Medicine and Health Sciences, Washington, D.C. seeks to expand its faculty to include a dual-excitation/dual-emission spectrometer with CCD detection capability to assess transmembrane signaling events. A strong commitment to research, teaching and community service is essential. Submit curriculum vitae to: Dr. Hugh Schieren, Department of Anesthesiology, Jefferson Medical College, Suite 866400, 111 South 11th Street, Philadelphia, PA 19107.

POSTDOCTORAL POSITION available immediately to study the effects of anesthetics on dynamic membrane properties. This position requires a dual-excitation/dual-emission spectrometer with CCD detection capability to assess transmembrane signaling events. A strong commitment to research, teaching and community service is essential. Submit curriculum vitae to: Dr. Hugh Schieren, Department of Anesthesiology, Jefferson Medical College, Suite 866400, 111 South 11th Street, Philadelphia, PA 19107.

POSTDOCTORAL POSITIONS IN MOLECULAR BIOLOGY. Two positions are available for individuals to pursue studies of the viral and host specific factors which regulate the replication and pathogenesis of HIV-1 and related retroviruses. Current research involves a multidisciplinary approach taking advantage of access to extensive clinical reagents and expertise, in addition to the resources of a complete molecular biology lab, including BL3 level tissue culture facilities. Candidates must have experience in molecular biology or virology. Please send curriculum vitae and names of three references to: Dr. Ernest Terrilliger, Associate Scientist, New England Deaconess Hospital, CR-5, 194 Pilgrim Road, Boston, MA 02215.

POSTDOCTORAL POSITION in PHYSIOLOGY. Available immediately. Organic Chemist will synthesize radioactive carrier molecules as part of a research program examining the diagnostic and therapeutic potential of radionuclides. Salary based on experience (NRAA Guidelines). Must be a U.S. citizen or permanent resident. Please contact: Dr. A. Kasak, preferred isotope of calcium or fluoride, Boston, MA 02116. Telephone: 617-432-3999. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN IMMUNOBIOLOGY. The George Washington University School of Medicine and Health Sciences seeks to expand its faculty to include a dual-excitation/dual-emission spectrometer with CCD detection capability to assess transmembrane signaling events. A strong commitment to research, teaching and community service is essential. Submit curriculum vitae to: Dr. Hugh Schieren, Department of Anesthesiology, Jefferson Medical College, Suite 866400, 111 South 11th Street, Philadelphia, PA 19107.

POSTDOCTORAL POSITION in MOLECULAR BIOLOGY. Two positions are available for individuals to pursue studies of the viral and host specific factors which regulate the replication and pathogenesis of HIV-1 and related retroviruses. Current research involves a multidisciplinary approach taking advantage of access to extensive clinical reagents and expertise, in addition to the resources of a complete molecular biology lab, including BL3 level tissue culture facilities. Candidates must have experience in molecular biology or virology. Please send curriculum vitae and names of three references to: Dr. Ernest Terrilliger, Associate Scientist, New England Deaconess Hospital, CR-5, 194 Pilgrim Road, Boston, MA 02215.
Be Part Of Our Next World Class Breakthrough

Centocor, an international leader in the biopharmaceutical industry, is seeking a Senior Research Scientist to complement its first class Diagnostics R&D staff.

SENIOR RESEARCH SCIENTIST

The successful candidate will exhibit initiative and creativity and will assume broad responsibilities in our Diagnostics research group. In collaboration with fellow scientists, research will be focused on the development, application and evaluation of novel in vitro analytical procedures. Experience in protein/glycoprotein purification and analysis, evidence of scientific proficiency and a Ph.D. in Biochemistry or a related scientific discipline are required.

Our medical breakthroughs are not all that’s world class. We offer a salary commensurate with experience and a comprehensive benefits package along with advancement opportunities. To apply, please send/fax resume with salary requirements to: Centocor, Human Resources, 200 Great Valley Parkway, Malvern, PA 19355. Fax: 215-651-6330. EOE M/F/D/V.

* Centocor
Specializing in Monoclonal Antibody Medicine

Challenging Post-Doctoral and Research Assistant Career Opportunities For

MOLECULAR/CELL BIOLOGISTS AND BIOCHEMISTS

We are an independent biomedical research institute located on the North Shore University Hospital campus on Long Island, convenient to New York City and Cold Spring Harbor Labs. We’re looking for capable, creative professionals to work alongside noted investigators and become involved with the following projects:

- **AIDS RESEARCH** – As part of the team headed by Dr. Michael Bukrinsky, your study will address the molecular mechanisms of HIV latency and infection of different cell types. Requires experience in virology and cell biology.

- **GENE REGULATION** – Headed by Dr. Richard Currie, this group will study the regulation of gene transcription during adipocyte and B lymphocyte differentiation. Expertise in protein biochemistry is desired.

- **ALZHEIMER’S DISEASE** – Working with Dr. Michael P. Vitek, you’ll address the processing of Amyloid Precursor Protein, the role of Beta-Amyloid Peptide, and prevention of neurotoxicity in Alzheimer’s Disease. Expertise in protein or biochemistry is desired.

We offer an excellent salary and benefits program, commensurate with experience. For confidential consideration, please forward your "c.v.,” with salary requirement and indication of position of interest, to: Human Resources Department-SMCB, The Picower Institute, 330 Community Drive, Manhasset, New York 11030. We are an equal opportunity/affirmative action employer.

The Picower Institute for Medical Research

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VACANT RESEARCH APPOINTMENTS 1993

The Royal Society

Applications are invited for about 15 Royal Society University Research Fellowships and four named research fellowships: the Eliza Challenger, the Howe, the Horace Le Marquand and Dudley Bigg and a Pickering Research Fellowship, tenable in the first instance for five years from 1 October 1993 (or slightly later in the academic year 1993–94). Renewals of three years and then a further two may be possible. The appointments available embrace all branches of science, including agriculture, medicine, mathematics, engineering and technology.

Persons appointed will be paid on the academic and academic-related staff (Lecturer A and B) salary scale which currently runs from £13 611 (age 26) to £23 759 (age 39) plus three additional discretionary points up to £26 526. Starting salaries will be on this scale, with London Allowance where appropriate, and will rise incrementally each year. Annual research expenses (up to £11 000 for 1993–94) will be available together with travel expenses and a contribution to baggage costs for successful applicants from overseas and their families.

Applicants must have a Ph.D. or equivalent research experience. They should be at least 26 but should not have passed their 33rd birthdays by 1 October 1993 although, in exceptional cases, older applicants will be considered. Applicants should propose to hold the fellowship in a university or polytechnic in the United Kingdom. Those holding substantive posts in those places will not be considered. University Research Fellowships are only open to European Community citizens employed or permanently resident in the United Kingdom.

Application forms and further information, including eligibility criteria and details of the subject areas of the four named fellowships, are available from the Research Appointments Department, The Royal Society, 6 Carlton House Terrace, London SW1Y 5AG (Fax 071-930 2170). Closing date 12 February 1993. Application forms are not available after 29 January 1993 and applications arriving after 4 p.m. on 12 February will not be considered.

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The Research Centre of an important French Pharmaceutical company based in the Paris Region, is looking for a :

PH.D. Biochemist

For its Division of Metabolic Diseases

The candidate should have a professional or post-Doctoral experience in vitro (enzymology, receptor studies) and in vivo techniques, as well as a general knowledge of Biochemistry. Experience in molecular and cellular biology would be considered an advantage.

An ability to work independently as well as an ability to communicate and collaborate with other groups within the Division is indispensable.

A knowledge of French would be an asset.

Please submit a C.V., a photography and a hand written letter to PUBLIVAL/11011 - 27 route des Gardes 92190 MEUDON (FRANCE)
HEALTH SCIENTIST ADMINISTRATORS
OFFICE OF RESEARCH INTEGRITY

The newly organized Office of Research Integrity (ORI), Public Health Service (PHS), Department of Health and Human Services (HHS) in the United States Government, invites applications for the positions of Health Scientist Administrator at the GS-13/14 grade level, with a current salary range of $46,210 to $70,987 per annum.

The ORI has the primary responsibility for the implementation of PHS policies and procedures regarding research integrity in the extramural and intramural biomedical and behavioral research community. This involves the review, oversight and conduct of investigations of possible allegations of scientific misconduct, as well as prevention and education activities designed to promote integrity in research.

The ORI offers the opportunity for intellectually challenging use of analytical, scientific, and investigatory skills. Scientists with a research and/or research administration background in university, institute, Government, or private research organizations are encouraged to apply.

The complete vacancy announcement which lists the technical qualifications required, and the Application for Federal Employment (SF 171), are available by letter or by telephone call to 301-443-6900. Completed applications must be received no later than November 30, 1992 at the following address:

Office of the Assistant Secretary
for Health Personnel Operations Office
Room 17A-07
5600 Fishen Lane
Rockville, Maryland 20857

PHS is an Equal Opportunity Employer. The Office of the Assistant Secretary for Health is a smoke-free workplace. Relocation expenses will not be paid.

FACULTY POSITIONS IN PROTEIN CRYSTALLOGRAPHY

In continued development of structural biology at the University of Georgia, Athens, the Department of Biochemistry has two available positions in the area of X-ray crystallography. One appointment can be at any academic rank; the other will be at the level of Assistant Professor. The University is committed to provide considerable resources to establish the facility, which will be located in the new Life Sciences Building. Many opportunities exist for collaboration with faculty members in several departments, programs, and centers. These positions are effective July 1, 1993. Applications received by February 1, 1993, are assured of consideration. Like all positions at the University of Georgia, this position is subject to approval by the Board of Regents of the University System and to budgetary considerations. Please send a letter briefly describing your research interests, curriculum vitae, and the names of three references to: Dr. J. David Puett, Head, Department of Biochemistry, University of Georgia, Life Sciences Building, Athens, GA 30602-7229. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMICAL ENDOCRINOLOGIST

A position is available for an Assistant Biochemist (non-tenure earning faculty position) to work in an active laboratory engaged in gondotropin structure-function relationships, hormone-receptor binding, and transmembrane signaling. Applicants should have experience in molecular and cell biology/endocrinology and some familiarity with protein chemistry. Applications received by January 25, 1993, are assured of consideration. Like all positions at the University of Georgia, this position is subject to approval by the Board of Regents of the University System and to budgetary considerations. Please send a letter briefly describing your research interests, curriculum vitae, and the names of three references to: Dr. J. David Puett, Head, Department of Biochemistry, University of Georgia, Life Sciences Building, Athens, GA 30602-7229. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.

NATIONAL SCIENCE FOUNDATION (NSF)

NSF's Division of Integrative Biology and Neuroscience (IBN) and Division of Molecular and Cellular Biosciences (MCB) are seeking qualified applicants to serve as Program Directors under the provisions of NSF's Visiting Scientist Program. Since responsibilities include research proposal evaluation, budget development and scientific planning, broad knowledge and specific research accomplishment are key qualifications. The positions are excepted from the competitive civil service and are filled on a one- or two-year rotational/temporary basis. The positions become available periodically and will be filled beginning in the summer or fall, 1993. The current, per annum, salary range is $54,607 to $85,500; qualification requirements include the Ph.D. or equivalent experience plus 6 or more years of research experience beyond the Ph.D.

In IBN, there are openings in: (1) Neuroscience (four positions); (2) Developmental Mechanisms (one position); and (3) Physiology and Behavior (two positions).

In MCB, there are openings in: (1) Cell Biology (one position); (2) Biochemistry/Biophysics (two positions); and (3) Genetics (two positions).

Applicants should send resumes or SF-171, Application for Federal Employment, to: National Science Foundation, Staffing and Classification Branch, Room 202, 1800 G St., NW., Washington, DC 20550. Attn: Catherine Handle. For further technical information call Dr. Bruce Umminger, Integrative Biology and Neuroscience (202) 357-7905; or, Dr. James H. Brown, Molecular and Cellular Biosciences (202) 357-9400. Hearing impaired individuals should call 202/357-7492.

NSF is an Equal Opportunity Employer.

The Johns Hopkins University
G.W.C. Whiting School of Engineering
ASSOCIATE DEAN FOR RESEARCH

The G.W.C. Whiting School of Engineering of The Johns Hopkins University invites applications for the position of Associate Dean for Research.

The Associate Dean for Research will work closely with the Dean and the faculty to develop research programs and proposals, including the development of research thrusts and centers and associated large-scale proposals. This individual will identify and pursue sources of funding, both governmental and industrial. Responsibilities will include interactions with University administration, technology transfer, and approving and signing research proposals. Candidates should possess a Ph.D. in engineering or a related field. Experience in university administration and sponsored research policies and legislation is desirable.

Applicants should submit resume with the names, addresses, and telephone numbers of three professional references to:

Dr. Don P. Giddens, Dean
G.W.C. Whiting School of Engineering
The Johns Hopkins University
3400 N. Charles St.
Baltimore, MD 21218

The Johns Hopkins University is an Equal Opportunity, Affirmative Action Employer.
DISCOVER THE NCI-FREDERICK CANCER RESEARCH & DEVELOPMENT CENTER

BIOLOGIC DRUG MANUFACTURING

The National Cancer Institute's (NCI) Biological Response Modifiers Program is establishing a state-of-the-art Biologic Drug Manufacturing Facility to produce experimental therapeutic agents for preclinical and clinical trials on breast, colon, prostate and other cancers.

The facility will employ cutting edge technology in mammalian cell bioreactor production of monoclonal antibodies and fermentation reactors for the production of recombinant proteins. Complete class-100 clean rooms, BL-3 containment, fermentation and bioreactor laboratories, biochemistry, conjugate and organic chemistry labs, and QC/QA operations will be included.

The facility will be managed by Program Resources, Inc. (PRI) at the Frederick Cancer Research and Development Center in Frederick, MD.

SCIENTIFIC HEAD/MANAGER

The candidate we seek will be responsible for the overall supervision of the scientific, regulatory and personnel programs under PRI management while conforming to NCI priorities of drug development and manufacturing. All manufacturing will conform to FDA cGMP guidelines for parenteral drug facilities.

This facility is in the initial phases of design. The Scientific Head/Manager will participate in the design and validation of the final concept. Upon completion, the facility will have a laboratory/clerical staff of 17 and will be equipped with the latest scientific equipment.

PRI with demonstrated expertise in biologic drug manufacturing and/or mammalian tissue culture, monoclonal antibody and recombinant protein production of biologic drugs, 3-5 years of related experience and an established reputation of directing and performing scientific programs is desired. Detailed knowledge and direct experience with hybridization, transfection, and establishment of serum-free cell lines producing proteins of clinical interest is essential.

In addition, PRI is seeking a RESEARCH ASSOCIATE to supervise at least one technician and the operation of state-of-the-art computer monitored bioreactors for cGMP production of monoclonal antibodies. This lab will eventually compound medium, and determine the optimal bioreactor growth and production conditions for cell lines of interest to the NCI.

MS with experience operating mammalian cell bioreactors for the production of parenteral-grade monoclonal antibodies. Background in cell biology, physiology, immunology or microbiology required. Specific experience in computers for monitoring and reporting data and bioreactor cell line performance desired. Experience with general lab glassware and instrumentation essential.

The working environment provided by the NCI-FCRDC is a campus-like setting in Frederick, MD near Baltimore and Washington, DC. PRI offers a salary commensurate with credentials and an attractive fringe benefits program, including a 401(k) savings plan and relocation assistance.

For consideration, please send resume, references, publications list, and salary requirements on behalf of the Executive Search Committee to:

Barbara Norton-Gill,
Technical Recruiter
PROGRAM RESOURCES, INC.
a DynCorp subsidiary
NCI-FCRDC
P.O. Box B
Frederick, MD 21702
EOE, M/F
POSTDOCTORAL POSITIONS FOR TRANS-GENIC CELLULAR AND MOLECULAR NEUROBIOLOGY—niche field

The Department of Neurobiology has postdoctoral positions available to study various aspects of molecular, cellular and developmental neurobiology using embryonic stem cell technology and transgenic mice. Some major areas of interest are cell-cell and cell-substratum adhesion molecules, neurite outgrowth and nerve regeneration. Specific studies involve the regulation of novel gene expression or deletion of adhesion molecules in transgenic mice generated from embryonic stem cells carrying altered adhesion molecule genes. In addition, transgenic mice that express adhesion molecules in ectopic locations; analysis of elements that control the expression of adhesion molecules and their roles in the formation of morphogenetic pathways during neural development. Applicants should have a strong background in cellular and molecular biology and experience with embryonic stem cells or transgenic mice. Send curriculum vitae and three letters of reference to: Dr. Gerald M. Edelman, Chairman, Department of Neurobiology, The Scripps Research Institute, 106066 North Torrey Pines Road, La Jolla, CA 92037. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study intracellular signaling in B lymphocytes, focusing on related mechanisms by which proteins link the function of sequence-specific DNA binding proteins (NF-kappaB, AP-1, CREB), and the expression of immediate-early growth response genes. Background in biochemistry or molecular biology preferred. Send curriculum vitae and the names of three references to: Thomas L. Rothstein, M.D., Ph.D., Room E-001, Boston University Medical Center, 88 East Newton Street, Boston, MA 02118, Telephone: (617)-638-7002, FAX: (617)-638-7065. Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study cell-specific gene expression in mammalian heart and endoderm, focusing on the role of a newly identified transcription factor in differentiation and development. Experience in molecular biology is desirable. Send curriculum vitae and two references to: Dr. David Wilson, Departments of Molecular Biology—Pharmacology and Pediatrics, Washington University School of Medicine, Box 8116, St. Louis, MO 63110.

POSTDOCTORAL POSITION IN MAIZE MOLECULAR GENETICS

To study expression of the P gene, a Myb-homologous regulator of flavonoid pigmentation biosynthesis (Proc. Natl. Acad. Sci. USA). Other broad areas include gene transposition mutagenesis, and analysis of P promoter/reporter gene fusions introduced into plant tissues by microprojectile bombardment. Send curriculum vitae and names of three references to: Dr. Thomas Peterson Cold Spring Harbor Laboratory P.O. Box 100 Cold Spring Harbor, NY 11724

POSTDOCTORAL POSITION IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

A position is available for research in eukaryotic protein synthesis and its relationship to cell growth and oncogenic transformation. The project involves the mechanism of RNA binding to ribosomes and how this is affected by initiation factor phosphorylation. A second is the mechanism by which protein synthesis rate is regulated by mitogens, cytokines and proto-oncogenes, especially those that stimulate intracellular phosphorylation pathways. We also need a background in cell biology. Please send curriculum vitae and names of three references to: Dr. Robert E. Rhoads, Professor and Head, Department of Biochemistry and Molecular Biology, LSU Medical Center, 1901 Kings Highway, P.O. Box 33932, Shreveport, LA 71130. LSU is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS: CARDIAC MEMBRANE BIOLOGY

Postdoctoral positions available immediately to study the role of intracellular calcium in the regulation of cardiac membrane proteins regulating E/C coupling and contractility. Proteins of cardiac sarcolemma and sarcoplasmic reticulum, currently under investigation include phosphomonoamino- phosphatase, SERCA2, ryanodine receptor, caldes- questrin, and second messenger-activated protein kinase isozymes. Other channels, pumps, and antipotitors also studied. Experience in protein chemistry, and/or single channel electrophysiology desirable. Proteins sequencer, nucleic acid and peptide synthesizers, and transgenic animal models and antibody facilities on site. Send curriculum vitae and names of references to: Dr. Larry R. Jones, Kranert Institute of Cardiology, Indiana University School of Medicine, 1111 West 10th Street, Indianapolis, IN 46202.

POSTDOCTORAL POSITION available immediately for a CELL BIOLOGIST to produce and test human monoclonal antibodies for growth inhibition of Plasmodium falciparum, identify and clone target antigen and prepare recombinant proteins. Position requires some extended periods of stay in France. Prior experience with culturing malaria parasites a plus. Salary is competitive and commensurate with curricul- lum vitae and the names and addresses of three references to: Theodore F. Taraschi, Ph.D., Thomas Jefferson University, Department of Pathology, 1020 Locust Street, Philadelphia, PA 19107. FAX: 215-923-2218. Smoke-free environment. Equal Opportu- nity Employer.

POSTDOCTORAL POSITION available immediately for lab using electrophysiological and morphological techniques to investigate the role of the inositol phosphate cascade in vas deferens. Send curriculum vitae and two letters of reference to: Allan Pein, Ph.D., Department of Physiology University of Connecticut Health Center Farmington, CT 06030

AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER M/W/EH.

POSTDOCTORAL FELLOWSHIP: MOLECULAR ENDOCRINOLOGY

Position available in a molecular endocrinology laboratory that studies the molecular control of hormone gene expression, with emphasis on pathophysiology of diabetes and neoplastic disease. Current interests include islet transcription factors, the glucagon gene, and parathyroid hormone-related peptide gene. Graduate experience in molecular biology is preferred. Applications are due: Dr. D. Drucker, Toronto General Hospital, 100 Elizabeth Street, Toronto, Ontario, M5G 2C4

POSTDOCTORAL RESEARCH ASSOCIATE. Two (2) positions are available immediately to study the immunoregulation of host-tumor interactions during stem cell mobilization. Experience in molecular biology required. Send curriculum vitae and names of three references to: B. Talmadge, Ph.D., University of Nebraska Medical Center, Pa- thology/Microbiology, 600 South 42nd Street, Omaha, NE 68198-3158. An Affirmative Action/Equal Oppor- tunity Employer.


POSTDOCTORAL RESEARCH ASSOCIATE. Ph.D. or M.D. in Immunology. Demonstrated knowledge required of: cellular immunology, biology, biochem- istry, and related disciplines. Ref: alcohol exposure on the thymus and mechanisms of impairment of thymus development in- duced by ethanol. In vivo experimental model: phenotypic, lymphokine assays or signal transduction is required. Salary $24,700 per year. Send résumé to: Martin J. Kahr, Ph.D., Centers for Disease Control Employment Services, P.O. Box 2236, Atlanta, GA 30803-2236, or apply in person at any Alabama State Employment Service. Job Order Number AL1400743.

RESEARCH ASSOCIATE/POSTDOCTORAL POSITIONS available for a Ph.D. in Biochemistry/Molec- ular Biology to investigate the molecular and genetic basis of DNA repair and mutation in mammalian cells using various repair deficient mutants. Experience in gene cloning and DNA analysis. Send curriculum vitae and names of three references to: Thomas D. Stamatoyannopoulos, Ph.D., THE LANKENAU MEDICAL RESEARCH CENTER, 100 Lancaster Avenue West of City Line, Wynnewood, PA 19096. 50% effort. A member of the Main Line Health family of hospitals. Equal Opportunity Employer.

RESEARCH ASSOCIATE, NEUROSCIENCE, CHILDREN’S HOSPITAL/HARVARD MEDICAL SCHOOL. Research Associate position with poten- tial for faculty position available in the Neuroscience Division of the Department of Neurology at Children’s Hospital/Harvard Medical School. Laboratory is that of the Chairman of the Department of Neurology. The research is focused on mechanisms of oligodendrogial cell death under conditions of glucose/oxygen depriv- ation and reoxygenation to excitatory amino acids. Model system is oligodendrogia grown in primary culture. Studies involve a wide variety of biochemical and cell biological techniques. Stimulating intellectual environ- ment in top rated Neurology and Harvard Medical School. Salary competitive and research fully supported. Later development of independent research program encouraged. Send letter of application, curriculum vitae and names of three references to: Joseph J. Volpe, M.D., Bronson Groth, J. Neurology, Harvard Medical School Neurologist-in-Chief Department of Neurology, Fegan 1103 Children’s Hospital 300 Longwood Avenue Boston, MA 02115

RESEARCH ASSOCIATE I. Research and publi- cation relating to chemical sensors and the triglaboratory of ultrathin, organized molecular layers using the synthesis and evaluation of polymeric and oligomeric materials, including those that exhibit nonlinear optical properties. Forty hours per week. $23,000.00 per year. Ph.D. in Electrochemistry required. Send résumé to: NM Department of Labor, Cost Center 1001, 501 Mountain Road NE, Albuquerque, NM 87102, Job Order No. 426379.

RESEARCH ASSISTANT II. Pathology to con- duct research into the isolation of probes encoding chromosome 6q22. This probe is highly associated with the primary genetic defect of familial Alzheimer’s disease (FAD), utilizing knowledge of extraction of DNA, Southern blot screening of DNA, Northern blot analysis of mRNA, restriction analysis, North- ern analysis, microbial growth, purification of plasmid DNA, quantitative and qualitative protein analysis by Western and dot blot analysis, and preparation & mainte- nance of cell cultures. Said experimental designs in- clude eukaryotic cell cultures, isolation of heteronuclear RNA from mouse-human hybrid cell line, reverse trans- scription of heteronuclear RNA encoding a plasmid from a CDNA library from chromosome transcripts, identification of cDNA clones from chromosome and searching for the FAD genetic defect of chromosome 6q22.

Requirements for the job position are: B.S. degree in Biology or Medical Studies or a foreign degree deter- mined to be equivalent to a B.S. degree by the evaluation agency. Six months of experience in the job described, including six months of research experience with extrac- tion of DNA, Southern blot, screening of genomic material, restriction analysis, Northern blot, Northern analysis, microbial growth, purification of plasmid DNA, quantitative and qualitative protein analysis by Western and dot blot analysis, and preparation & maintenance of cell cultures. Must be willing to work with radioisotopes. Applicants to submit résumé and names of three profes- sional references. Work 27.5 hours per week; 8:30 a.m. to 5:00 p.m., Monday to Friday. Salary: $21,865 per year.

Must have proof of legal authority to work in the United States. Send résumé in duplicate (no calls) to: L. Ellison, JGO#1200934, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.
DARTMOUTH MEDICAL SCHOOL
Assistant/Associate Professor
Microbiology and Immunology

The Department of Microbiology at Dartmouth Medical School invites applications for a tenure-track position to be filled in the 1990 academic year. Areas of research interests include investigations into any aspect of infectious disease pathogenesis (viruses, bacteria, or parasites) preferably using molecular approaches. Qualified candidates must have a Ph.D. and/or M.D. degree and a minimum of two years of postdoctoral research experience. This is a new position in a growing department. The successful applicant is expected to establish an independent research program, participate in departmental teaching responsibilities, and may join an active Ph.D. degree awarding program. There are opportunities to interact with clinicians and trainees in the Infectious Disease Section of the Department of Medicine, as well as in the Norris Cotton Cancer Center. Applicants should send a curriculum vitae, a description of research interests, and a list of three references to: The Molecular Pathogenesis Search Committee, Department of Microbiology, Dartmouth Medical School, Hanover, NH, 03755-3842. Dartmouth College is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply.

FACULTY POSITION IN IMMUNOLOGY

Applicants holding the M.D. and/or Ph.D. degree and with interests in cellular/molecular immunology are sought for a tenure-track position in the Department of Microbiology at Dartmouth Medical School. Two or more years of postdoctoral research experience are required at the Assistant Professor level, whereas candidates for the Associate Professor level or higher should have an established record of research funding. Duties include establishing and maintaining a strong independent research program, participating in departmental teaching responsibilities, and interacting with the existing faculty in immunology, infectious disease, rheumatology and/or the Norris Cotton Cancer Center. Participation in an NIH Training Grant in Immunology, a Graduate Ph.D. Program and joint program project grants is expected. Applicants should submit a curriculum vitae, a description of research interests and a list of three references to: The Immunology Search Committee, Program in Immunology, Dartmouth Medical School, 1 Medical Center Drive, Lebanon, NH 03756. Dartmouth College is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply.
MOLECULAR/CELLULAR BIOLOGIST

Molecular/Cellular Biologist to conduct research on the molecular basis for lung cancer and other health effects of inhaled toxicants. Doctoral degree or equivalent scientific credentials in cellular or molecular biology, tumor biology, molecular toxicology or closely related field with an understanding of radiobiology, and post-doctoral training or relevant experience in the molecular basis for abnormalities in mammalian cells is required. Interests in carcinogenesis and toxicology preferred.

The Inhalation Toxicology Research Institute offers a highly interactive, multi-disciplinary team environment and an opportunity to live and work in the beautiful Southwest.

Please send resume and salary requirements to Human Resources Unit, Inhalation Toxicology Research Institute, P.O. Box 5890, Albuquerque, New Mexico 87185 by December 11, 1992. Refer to Job #118.

AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER

RESEARCH ASSOCIATE

University of Texas Southwestern Medical Center at Dallas

Two postdoctoral positions available immediately for talented scientists with an interest in protein engineering. No previous experience in the field is essential, but candidates should possess a willingness to learn and aggressively exploit both biological and chemical techniques. Projects will involve enzyme design, phage display, and hybrid proteins. Send curriculum vitae and three letters of reference to: Dr. David Corey, Texas Heart Institute/University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235-9050.

An Equal Opportunity Employer.

LABORATORY COORDINATOR

The College of Science of the University of Notre Dame seeks applicants for a non-tenure-track position as laboratory coordinator for one of two of the following undergraduate courses in the Department of Biology: (1) an integrated course in Cell Biology and Genetics, and (2) Animal Physiology. Duties will include development of laboratory exercises in conjunction with appropriate faculty, coordination of graduate teaching assistants, and general responsibility for instrumentation and for the running of the laboratories. Applicants should have expertise in modern techniques and teaching experience in at least one, and preferably more, of the listed areas. Minimum of a Master’s degree in one of the above fields is required. Position begins Spring 1993. Applications should include curriculum vitae, undergraduate and graduate transcripts, two letters of reference, and a cover letter detailing the applicant’s technical expertise and teaching experience. Send application by December 15, 1992 to: Professor John G. Duman, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556.

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

SUPERVISORY NEUROSCIENTIST

GM-15

To serve as Chief of the Neurotoxicology Branch, Pathophysiology Division, U.S. Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, Maryland. Responsibilities include supervising and managing research on the mechanisms of action of neurotoxic chemical agents and biological toxins of military interest. The goals of these research initiatives are the development of effective pharmacologic pretreatment or therapeutic regimens for soldier use. Qualified applicants should have a background in neurophysiology, neuroanatomy, neurochemistry, experimental psychology, and neurotoxicology as indicated by peer-reviewed publications. Demonstrated ability in multidisciplinary research and execution is essential. The ideal candidate will have a Ph.D. in one of the basic animal sciences, physiology, pharmacology, psychology, or a closely related discipline. Salary range is $64,233 to $83,502.


Chairman and Professor, Otolaryngology
Tufts University School of Medicine/New England Medical Center Hospitals

Applications are invited for the position of Professor and Head, Division of Otolaryngology, Tufts University School of Medicine, and Chairman, Department of Otolaryngology, New England Medical Center Hospitals. We seek a candidate with the highest academic credentials who will be able to direct a vigorous multifaceted department in an expanding academic Medical Center and leading Medical School.

Please send your curriculum vitae and supporting information to Carmen A. Puliafito, M.D., Chairman, Department of Ophthalmology, New England Medical Center Hospitals and Tufts University School of Medicine, 750 Washington Street, NEMC #450, Boston, MA 02111-1845. An Equal Opportunity Employer.

New England Medical Center
SENIOR RESEARCH SCIENTIST

Molecular Biology

At the Medical Research Division of American Cyanamid Company, we're making important strides in developing a new generation of therapeutics based on molecular biology and cell-specific mechanisms. Currently, we are seeking an energetic individual for our Molecular Biology Department to work on projects involving transcription factors and eukaryotic gene expression.

The successful candidate should have a PhD in molecular biology or related field and relevant postdoctoral experience.

We are located on the Lederle Laboratories campus of American Cyanamid in Rockland County, only 25 miles north of New York City. The salary is fully competitive and includes comprehensive benefits. For consideration, please send your resume to: Dept. IK, Lederle Laboratories, Bldg. 205, Room 283, Middletown Road, Pearl River, NY 10965. An Equal Opportunity Employer.

Dedicated People Dedicated To People Since 1906.

BIOPHARMACEUTICAL RESEARCH

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, has exciting opportunities for several scientists to join its Gene Expression Sciences and Macromolecular Sciences research teams.

GENE EXPRESSION SCIENTIST

The selected candidate will clone and express genes encoding novel drug targets or therapeutic proteins and develop microbial-based screens for new drugs.

Requirements for this position include a B.S. in Molecular Biology or a related biological science and 1-5 years experience, or M.S. with 1-2 years experience in recombinant DNA techniques. In addition, the successful candidate will have strong organizational and communication skills and an ability to interact closely with a multidisciplinary team of scientists. (Job #H0530)

POSTDOCTORAL SCIENTIST

As a member of the Gene Expression Sciences research team, the selected candidate will identify, clone and characterize novel genes in the yeast Saccharomyces cerevisiae involved in cytoplasmic signal transduction aimed at understanding the mechanism of action of immunosuppressive drugs (see Mol. Cell. Biol. 11:1718, 1991; Gene 108:73, 1991; Gene 111:85, 1992).

Requirements for this position include a Ph.D. in Molecular Biology or a related biological science and a strong background in recombinant DNA techniques (experience in yeast genetics is highly desirable). The candidate also should possess a proven record of scientific achievement as evidenced by publications in major scientific journals. SmithKline Beecham postdoctoral scientists are strongly encouraged to publish research findings. (Job #H0532)

MOLECULAR BIOLOGY SCIENTIST

The selected candidate will design, conduct and interpret experiments in molecular biology aimed at cloning and expression of novel proteins. This position requires a B.S. in Molecular Biology, Genetics or a related field and 3-5 years experience, or an M.S. and 1-3 years experience. The successful candidate should have a background in molecular biology techniques including PCR, DNA sequencing, Western Blotting and Northern and Southern analysis. A background with tissue culture and transfection techniques is desirable. (Job #H0453)

Our state-of-the-art research facility is located in suburban Philadelphia, near Valley Forge, PA. We offer a competitive compensation/benefits/relocation package, as well as a stimulating and challenging work environment. For confidential consideration, please submit your C.V., indicating the appropriate job #, and the names of three references, to: SmithKline Beecham Pharmaceuticals, Senior Employment Administrator, PO Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/D/V.
MAX-PLANCK-INSTITUTE FOR BIOPHYSICAL CHEMISTRY
Molecular Neurobiologists

Two positions exist in the newly set up research group “Molecular Neurobiology” in the Department of Membrane Biophysics: one for a research scientist (Bat Ila/lb) and one for a postdoctoral fellow, starting 1.1.1993 for a period of 5 and 2 years, respectively. The group will study structure function relationships in neurotransmitter receptors, ion channels, and the transduction mechanisms that couple to them. Special interest focuses on the cloning, expression, and functional characterization of novel components in the 7-helix receptor/G protein/ion channel transduction cascade. The candidates will have a PhD in a relevant field plus a track record with solid experience in molecular biology and/or gene expression/transfer for the scientist position.

If you are interested in either of these positions, please call or send your CV with a list of publications and the names of three referees to: Dr. Andreas Karschin, Max-Planck-Institute for Biophysical Chemistry, Department 140, Am Fassberg, 3400 Göttingen, FRG, Tel. (0551) 201665, Fax. (0551) 201688.

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Tufts University School of Medicine/New England Medical Center Hospitals

Applications are invited for the position of Chairman and Professor, Department of Surgery, Tufts University School of Medicine, and Surgeon-in-Chief, Department of Surgery, New England Medical Center Hospitals. We seek a candidate with the highest academic credentials who will be able to direct a vigorous multi-faceted department in an expanding academic Medical Center and leading Medical School.

Please send your curriculum vitae and supporting information to Sheldon M. Wolff, M.D., Chairman, Department of Medicine, New England Medical Center Hospitals and Tufts University School of Medicine, 750 Washington Street, NEMC #312, Boston, MA 02111-1845. An Equal Opportunity Employer.

POSIIONS OPEN
Science
Swedish Natural Science Research Council (NFR)

Invites applications for a research position in Sequence stratigraphy. The position may be held at an appropriate earth sciences research group within Sweden. The position is intended to begin July 1, 1993, and runs for 3 years with a possibility of a prolongation for another 3 years. Salary range corresponding to associate professor (SEK 245,000–325,000 per year). After these years the scientist is entitled to an appointment as a University Lecturer.

Applications should reach the Swedish Natural Science Research Council, Box 6711, S-113 85 Stockholm, Sweden, by January 4, 1993. A curriculum vitae including a list of publications, a short plan for the research the applicant would like to carry out, and at most 10 reprints of scientific papers should be appended to the application. The application and all the supporting documents shall be submitted in four copies.

Further information can be obtained from Mrs. Natalie Lunin at the Secretariat of NFR, phone no. +46 8 610 07 56, fax no. +46 8 6100740, telex no. 13599 RescounS.

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The Ohio-based Company is seeking a senior scientist with a significant record of scientific achievement and research management. The successful candidate should have a primary research background in cell biology, developmental biology, molecular biology or immunology. A special interest in hematopoiesis would be desirable. Prior pharmaceutical/biotechnology industrial experience is not mandatory. Strong management and organizational skills are essential as is the ability to effectively communicate to scientific and lay audiences.

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Reply in confidence with C.V. to: Dr. Glenn L. Cooper, President and Chief Executive Officer, Progenitor Inc., 132 North Woods Boulevard, Columbus, Ohio 43235.
POSITIONS OPEN

MOLECULAR BEHAVIORAL ECOLOGY. The Huxley Research Instructorship is a 2-year position combining modest teaching and collaborative research, starting as of Fall 1992. Collaborative studies of kinship and social behavior using DNA microsatellite markers. Molecular experience preferred but not essential. Send curriculum vitae, brief statement of teaching and research interests, and 3 reference letters to: David Queller, Search Committee, Department of Ecology and Evolutionary Biology, Rice University, P.O. Box 1992, Houston, TX 77251 by December 23, 1992.

Women and minorities are encouraged to apply. Rice University is an Equal Opportunity/Affirmative Action Employer.

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The California Environmental Protection Agency, Department of Toxic Substances Control (DTC) is seeking Toxicologists and Associate Toxicologists in its pesticide regulatory program. Incumbents will evaluate toxicology studies and/or conduct risk assessments. Positions exist for individuals with Master's and/or Doctorate degrees in toxicology, pharmacology, or a closely related field with suitable experience in animal toxicology. Salary ranges begin at $45,78 per month for Staff Toxicologist (minimum, Ph.D. and 3 years of experience) and $51,962 per month for Associate Toxicologist (minimum, M.S. and 4 years of experience or Ph.D.). Comprehensive benefits package. Continuous testing, oral exam required. Submit resumes to:

Department of Pesticide Regulation
Examinations Unit
1220 N Street, Room 154
Sacramento, CA 95814

RESEARCH SCIENTISTS

MOLECULAR BIOLOGY

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ANNOUNCEMENTS

UNIVERSITY OF FLORIDA PREDOCTORAL PROGRAM IN CELL BIOLOGY

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COURSES AND TRAINING

GRADUATE TRAINEEHIPS INTEGRATIVE PHOTOSYNTHESIS RESEARCH

University of Illinois at Urbana-Champaign (UIUC)

Traineeships are available in the Integrative Photosynthesis Research Graduate Training Program, funded by the Department of Energy. The program offers opportunities for research into mechanism and integration of all aspects of photosynthesis, across traditional boundaries of photosynthesis research. Training and experience are provided in multiple techniques of biochemistry, biophysics, molecular genetics and physiology. Traineeships start at $14,000 per year with full tuition and fee waiver. Only U.S. citizens and permanent residents are eligible. Women and members of minority groups are encouraged to apply. For further information write to: Professor C. A. Wright, 190 Plant and Animal Biotechnology Laboratories, University of Illinois, 1201 West Gregory Drive, Urbana, IL 61801. FAX: 217-244-1336.

UIUC is an Affirmative Action/Equal Opportunity Employer.

MEETINGS


Dr. Diana L. Weigmann
VA Water Resources Research Center
617 North Main Street
Blacksburg, VA 24060-3397
FAX: (703) 231-6673

SIXTH INTERNATIONAL CONFERENCE ON CARCINOGENESIS AND RISK ASSESSMENT

Receptor-Mediated Biological Processes: Implications for Evaluating Carcinogenesis
December 8-11, 1992
Barclay Creek Resort, Austin, Texas
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For more information, contact:
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