POSITIONS OPEN

ANIMAL PHYSIOLOGY
dept. of BIOLOGY
UNIVERSITY OF UTAH

We seek applications for two faculty positions at the ASSISTANT or ASSOCIATE PROFESSOR level in animal physiology. Preference will be given to individuals whose research involves modern approaches to systems-level phenomena in vertebrate animals and the study of physiological mechanisms within a comparative, evolutionary framework. Outstanding applicants who utilize invertebrate systems will also be considered. We seek candidates with strong commitments to both teaching and research. Successful candidates will be expected to contribute to undergraduate courses in human and comparative vertebrate physiology and to develop advanced offerings in their own areas of specialty. Interested persons should submit a vita, statement of research interests, copies of relevant publications, and three letters of recommendation to: ANIMAL PHYSIOLOGY SEARCH COMMITTEE, Department of Biology, 201 South Biology, University of Utah, Salt Lake City, UT 84112. Review of applications will begin December 1, 1993, and will continue until these appointments are made.

The University is an Affirmative Action/Equal Opportunity Employer. It encourages applications from women and minorities, and provides reasonable accommodation to the known disabilities of applicants and employees.

MOLECULAR EVOLUTION
DEPARTMENT OF BIOLOGY
UNIVERSITY OF UTAH

The Biology Department invites applications for a tenure-track position in the general area of molecular evolution. While the available position is at the level of ASSISTANT PROFESSOR, applications from candidates at more senior levels will be seriously considered. Applicants should be prepared to conduct a vigorous research program in some aspect of molecular evolution (such as DNA-based taxonomic, evolutionary biology, molecular structure or use of molecular methods to pursue any evolutionary topic). We seek candidates with backgrounds in evolutionary process and molecular biology/computer intensive technology. The Department is a broad, interactive group spanning the entire spectrum of biological research. We seek a colleague to participate actively across this community. We seek candidates with strong commitments to both teaching and research. Successful candidates will be expected to contribute to undergraduate courses in biology and to develop advanced offerings in molecular evolution. Interested applicants should submit a curriculum vitae, a statement of research interests and copies of recent publications to: MOLECULAR EVOLUTION SEARCH COMMITTEE, Department of Biology, 201 South Biology, University of Utah, Salt Lake City, UT 84112. Review of applications will begin December 1, 1993, and will continue until this appointment is made.

The University of Utah is an Affirmative Action/Equal Opportunity Employer. It encourages applications from women and minorities and provides reasonable accommodation to the known disabilities of applicants and employees.

ASSISTANT PROFESSOR
MEDICAL MICROBIOLOGIST

Tenure-track state-funded academic-year appointment in the Department of Microbiology at Arizona State University. Applicants must have a Doctoral degree and postdoctoral experience in a field related to medical microbiology. Specific research area is open, although candidates whose research focuses on immunology or virology at the cellular or molecular level are especially encouraged to apply. The successful candidate will be expected to conduct an independent extramurally funded research program; direct graduate student research; teach undergraduate- and graduate-level courses in medical microbiology; and engage in service activities. Experience working with grants/funded grant projects is desirable. Submit curriculum vitae, names and addresses of three references, a statement of research interests, and no more than three relevant reprints to: Search Committee, Department of Microbiology, Arizona State University, Box 827201, Tempe, AZ 85287-2201.

Applications will be accepted until February 15, 1994, and the 15th of each succeeding month until filled. Arizona State University is an Equal Opportunity Employer and encourages applications from women and minority candidates.

POSITIONS OPEN

GENETICIST—Anticipated ASSISTANT PRO-
FESSORSHIP, tenure-track basis. Genet-
ics and participate in Introductory Biology. Preference given to population geneticists using molecular techniques. Ph.D. required. Applicants must demonstrate excellent undergraduate teaching record and research program involving undergraduates, including publication. Experience in small college setting desirable.

Send letter of application and curriculum vitae to: Dr. Mary B. Fields, Department of Biology, Ursinus College, Collegeville, PA 19426, by January 31, 1994. Ursinus is Equal Opportunity Employer/Affirmative Action.

THE CLARE BOOTSHE LUCE PROFESSORSHIP
DEPARTMENT OF CHEMISTRY
BOSTON UNIVERSITY

Boston University invites women chemists to apply for an endowed tenure-track faculty position at the ASSISTANT PROFESSOR level, starting September 1994. Applicants from any field of experimental chemistry will be considered. Applicants are expected to establish a vigorous research program and to participate in the undergraduate and graduate teaching activities of the department. The Clare Boothe Luce Foundation endowment will provide support for salary and start-up of research program. Excellent facilities for research are available in the department. NMR, GC/MS, X-ray crystallography, and computing resources. Candidates should provide curriculum vitae, three letters of recommendation, and a proposal of future research plans and teaching interests. Nominations or applications should be addressed to: Dr. Standish C. Hartman, Chairman, Department of Chemistry, Boston University, Boston, MA 02215. Deadline for receipt of applications is December 15, 1993. Boston University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR
PHYSICAL BIOCHEMISTRY
DEPARTMENT OF CHEMISTRY
BOSTON UNIVERSITY

Applications are invited for a tenure-track faculty position at the level of assistant professor, starting September 1994. We particularly seek individuals with expertise in high-resolution NMR or X-ray crystallographic studies of biological macromolecules, or whose work interfaces with initiatives in photonics, neurosciences, and environmental science. Excellent facilities for research are available in the department, including NMR, GC/MS, X-ray crystallography, and computing resources. Applicants are expected to establish a vigorous research program and to participate in the undergraduate and graduate teaching activities of the department. Curriculum vitae, three letters of recommendation, and a proposal of future research plans and teaching interests should be sent to: Dr. Standish C. Hartman, Chairman, Department of Chemistry, Boston University, Boston, MA 02215. Boston University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR
Division of Rheumatology and Clinical Immunology

The Department of Medicine, University of Pittsburgh School of Medicine, invites applications for a tenure-track position at the Assistant or Associate Professor level in the areas of molecular immunology, immunogenetics or related basic science areas with an interest in the basic mechanisms of autoimmune. Candidates must have an M.D., M.D./Ph.D., or Ph.D., postdoctoral research experience, a well-developed research plan for an independent research program. Applicants should send curriculum vitae, list of publications, selected reprints, a statement of teaching interests and plans, and the names of three references to: Thomas A. Medsger, Jr., M.D., Chief, Division of Rheumatology and Clinical Immunology, Pittsburgh School of Medicine, 9th Floor, 616 Scaife Hall, Pittsburgh, PA 15261. Telephone: 412-648-9698. Applications accepted until February 15, 1994, or until a suitable candidate is found. University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.
AACR SPECIAL CONFERENCES IN CANCER RESEARCH

Risk Assessment in Environmental Carcinogenesis
January 17-22, 1994
Whistler Resort and Conference Centre
Whistler, British Columbia, Canada

Conference Chairpersons: Philip C. Hanawalt, James A. Swenberg
Program Committee: John Ashby, William H. Farland, Carol J. Henry, B. Singer, Thomas R. Skopek, Roger W. Wiseman, Barry W. Glickman

SCIENTIFIC PROGRAM


Molecular Genetics of Tumor Progression and Metastasis
January 31 - February 5, 1994
Big Sky Resort, Big Sky, Montana

Conference Chairpersons: Lance A. Liotta
Program Committee: Eric R. Fearon, Patricia S. Steeg, William G. Stetler-Stevenson, Dennis J. Slamon

SCIENTIFIC PROGRAM


Cancer: Perturbations in Cell Cycle Control and Genomic Integrity
February 19-24, 1994
Banff Springs Hotel, Banff, Alberta, Canada

Conference Chairpersons: Thea D. Tlsty, Lawrence A. Loeb
Program Committee: Philippe Gros, Michael Smith

SCIENTIFIC PROGRAM

Keynote Address: Manfred Eigen; Modulators of Growth and Development: J. Michael Bishop, Harold Weintraub, Tom Curran; Tumor Suppressor Genes: Carol L. Prives, Mary Claire King; Endogenous Sources of DNA Damage: Lawrence A. Loeb, Tomas Lindahl, Curtis C. Harris, Miroslav Radman; Responses to DNA Damage: Albert J. Fornace, Jr., Michael B. Kastan, Sara Lavi; Controls on Genomic Integrity: Thea D. Tlsty, Joyce L. Hamlin, Carol W. Greider, Randal N. Johnston; Genetic Integrity and Carcinogenesis: Takashi Sugimura, Joe W. Gray, Gienna Burmer; Cell Cycle: Robert A. Weinberg, Jean Y. J. Wang; Terminal Arrest: J. Carl Barrett, Judith Campisi, Eileen White

Growth Factors, Development, and Cancer
March 5-11, 1994
Congress Center, Interlaken, Switzerland

Conference Chairpersons: Harold L. Moses, Bernd Groner
Program Committee: Max M. Burger, Tom Curran, Rik Derynck, Nancy E. Hynes, Jean-Pierre Mach, Lynn M. Matrisian, John Mendelsohn

SCIENTIFIC PROGRAM


Information and Application Forms: American Association for Cancer Research
Public Ledger Building, 620 Chestnut Street, Suite 816
Philadelphia, PA 19106-3483
Phone: 215-440-9300 Fax: 215-440-9313
PHARMACOLOGY: Department of Pharmacology, Southeastern University of the Health Sciences, invites applications for the same ASSISTANT PROFESSOR, Ph.D. in Pharmacology required and teaching experience highly desirable. Curriculum vitae and list of three references by January 19, 1994, to: Gregory, Ph.D., Department of Pharmacology, 1750 N.E. 168th Street, North Miami Beach, FL 33162.

BIOLOGY: The Department of Biology at Hood College invites applications for 2 ASSISTANT PROFESSOR tenured-track positions to begin August 1, 1994. One position involves Cell Structure and Function in the M.D. program in Medical Physics. Another position involves undergraduate and graduate courses in Molecular Biology, Developmental Biology, Zoology, and Population Biology and being involved actively in field research. Qualified applicants will have a Ph.D. and a strong commitment to research with students. Postdoctoral and teaching experiences desired. Send curriculum vitae, transcripts, statement of research interests and 3 letters of reference to: Betty Eastlack, Hood College, 401 Rosemont Avenue, Frederick, MD 21701 by January 1, 1994. Hood is a comprehensive college serving approximately 1200 undergraduates, primarily students, and 970 graduate students. Hood College subscribes to the policy of hiring only U.S. citizens and lawfully authorized alien workers. We actively encourage applications from women and members of minority groups.

ASSISTANT/ASSOCIATE PROFESSOR: The Department of Internal Medicine at the University of California at Davis invites applications from qualified individuals for a full-time faculty position at the Assistant/Associate Professor level in the Division of Endocrinology for individuals who must maintain a M.D. degree, be Board-certified/eligible in Internal Medicine and Endocrinology & Metabolism and be eligible for licensure in the state of California. As a research interest in general endocrinology with an emphasis on basic or clinical endocrinology is preferred. Please send a letter outlining research, teaching background and interests and name of five references to: February 28, 1994. Reply to: Thomas T. Aoki, M.D., Chair of Search Committee, Division of Endocrinology & Metabolism, University of California at Davis, 4801 X Street, Sacramento, CA 95817. The University of California, Davis, is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN CELL AND MOLECULAR BIOLOGY

Applications are invited for a tenure-track position beginning in Fall 1994 at the level of ASSISTANT PROFESSOR. Applicants must have a Ph.D., at least 2 years of postdoctoral experience and a strong publication record. The successful applicant will be expected to establish an independent research program and to participate in graduate and undergraduate teaching. We seek applications from individuals whose research addresses basic questions related to the molecular biology of development. Opportunities exist for research collaborations and participation in one or more interdisciplinary graduate programs. The deadline for applications is January 15, 1994. Applicants for the position should send curriculum vitae, a brief statement of research plans and the names of three references to: Dr. Ken Muneoka, Chair, Department of Cell and Molecular Biology, Tulane University, New Orleans, LA 70118. Tulane University is an Equal Opportunity/Affirmative Action Employer and encourages minority and female applicants to apply.

FACULTY POSITION IN GENETICS: The Department of Biology, Tulane State University, invites applications for a tenure-track position (Number 103120, ASSISTANT PROFESSOR, Ph.D. required by first day of classes 1994) in Genetics. Successful applicant must have a broad background in biology with genetics specialization. Research/Public Service is expected. Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply. Application reviews begin 15 December 1993. Send application referencing position number, transcripts, and three letters of recommendation to: Chair, Box 578, MTUS, Metropolis, TN 37132.

POSITIONS OPEN

POPULATION BIOLOGIST

The Department of Zoology, University of Texas at Austin, invites applications for a tenure-track position at the level of ASSOCIATE or full PROFESSOR in the area of empirical/experimental population biology. Possible areas of specialization include but are not limited to Population or Evolutionary Genetics; Population, Evolutionary, and Conservation Genetics/Biology. The successful candidate will be expected to join and contribute to a strong research and training program in the area of population biology. Candidates who complement the current strengths of the program in this area by adding new dimensions to the groups are particularly encouraged. The successful candidates will be expected to complement faculty members in population biology, molecular evolution, behavioral ecology, insect and arachnid zoology, population biology and being involved actively in field research. Qualified applicants will have a Ph.D. and a strong commitment to research with students. Postdoctoral and teaching experience desired. Send curriculum vitae, transcripts, statement of research interests and 3 letters of reference to: Terry Magnuson, Department of Biology, University of Texas, Austin, TX 78712, U.S.A. Application review will begin by January 1, 1994. The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF CALIFORNIA–DAVIS ASSISTANT PROFESSOR

The Department of Entomology invites applications for a tenure-track position (25% time) in molecular and/or empirical/experimental ecosystems. The candidate must have a Ph.D. in entomology or a biological science, with training and experience in ecology of aquatic ecosystems. Individuals with experience in biology of mosquitoes are desirable. The successful candidate will be involved in undergraduate and graduate instruction and will be expected to develop a research program on the ecology of aquatic ecosystems, with primary emphasis on biology of mosquitoes and associated aquatic organisms. Candidates should submit a letter of application, curriculum vitae, a brief statement of research interests and goals, three letters of recommendation to: Chair, Search Committee, Department of Entomology, University of California, Davis, CA 95616. Applications must be postmarked no later than January 15, 1994. The University of California is an Equal Opportunity/Affirmative Action Employer.

ANIMAL ECOLOGY/BEHAVIORAL ECOLOGY

Harvard University: The Department of Organismic and Evolutionary Biology at Harvard University invites applications for two ASSISTANT PROFESSORS, one in animal ecology and one in behavioral ecology. We encourage applications from a broad range of subdisciplines, including empirical and theoretical approaches to behavioral ecology, population biology and/or community ecology. Applicants should send by January 1, 1994, curriculum vitae, statement of research interests, and names, addresses and telephone numbers of at least three referees to: Professor N. E. Pierce, Animal Ecology/Behavior Search Committee, 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.

ECOLOGIST

Canisius College is searching for an ASSISTANT PROFESSOR (tenure-track) in ecology. The candidates should have a Ph.D. in ecology with expertise in existing faculty, which include an environmental toxicologist, plant geneticist, microbiologist, and animal behaviorist, and be able to teach courses in general zoology, systematics, and plant ecology. Individuals with research interests in their specialty. The development of a field-based research program involving undergraduates is required. Submit curriculum vitae, plan of proposed research, area of teaching interests, and names and addresses of three references to: Dr. Paula Dehn, Chair, Biology Department, Canisius College, 2001 Main Street, Buffalo, NY 14208, or via FAX (716) 887-2500. Informal inquiries are welcome (716) 887-2500.

POSITIONS OPEN

CELLULAR BIOLOGISTS

The Department of Zoology (reorganizing as the Department of Cellular Biology) at the University of Georgia seeks applications for 3 ASSISTANT PROFESSOR positions. One position requires expertise in electron microscopy and in cell structure. Obligations for both positions include research as well as teaching undergraduate classes. Send curriculum vitae, statements of proposed research and teaching interests, and at least four letters of recommendation to: Dr. Koji Meno-Wilmore, Chair of Search Committee, Department of Zoology, The University of Georgia, Athens, GA 30602. Applications received by December 21, 1993, will be assured of consideration. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.

ECOSYSTEM ECOLOGIST

University of California, Santa Barbara

The Department of Biological Sciences and the Environmental Studies Program are seeking qualified applicants for a shared tenure-track position at the ASSISTANT OR ASSOCIATE PROFESSOR level in terrestrial or aquatic ecosystems. Candidates must have a Ph.D., outstanding research accomplishments and a strong commitment to teaching at the undergraduate and graduate levels. We encourage applicants with broad research interests who may include ecology, evolution, biodiversity, biogeochemistry, experimental evolution, and population processes through empirical/experimental approaches, or biological controls on cycling of nutrients and exchanges of materials. Responsibilities include teaching an undergraduate course in the candidate's area of expertise, research and supervision of research assistants, and participation in an interdisciplinary team of ecologists working in the area of terrestrial ecosystems, understanding of ecosystem and community processes through population-based approaches, or biological controls on cycling of nutrients and exchanges of materials. Responsibilities include teaching an undergraduate course in the candidate's area of expertise, research and supervision of research assistants, and participation in an interdisciplinary team of ecologists working in the area of terrestrial ecosystems, understanding of ecosystem and community processes through population-based approaches, or biological controls on cycling of nutrients and exchanges of materials.

NEW OPPORTUNITIES FOR MOLECULAR GENETICISTS

The Center for Human Genetics at Boston University School of Medicine (BUSM) now offers new positions for Ph.D. molecular geneticists as ASSISTANT OR ASSOCIATE PROFESSOR, rank. Established investigators preferred with expertise in gene mapping, cloning, in situ hybridization, sequencing, immunogenetics, cancer research or use of recombinant DNA to manipulate complex genomes. Interaction with over 40 molecular biologists/geneticists. Send curriculum vitae to: Aubrey Milliron, Ph.D., Associate Professor, Human Genetics, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118. BUSM is an Equal Opportunity/Affirmative Action Employer.

MOUSE DEVELOPMENTAL GENETICS

Department of Genetics School of Medicine

Case Western Reserve University

The Department of Genetics, chaired by Dr. Huntington F. Willard, is continuing to expand and is seeking a new tenure-track ASSISTANT OR ASSOCIATE PROFESSOR in the area of mouse developmental genetics. The Genetics Department presently consists of 17 faculty whose research programs focus on genetics of human disease, mice, Drosophila, and C. elegans. The successful candidate should have at least two years of postdoctoral experience and will be expected to initiate an active, externally funded research program. Generous startup funds are available through the Department and the Lucile P. Markey Center for Developmental Genetics. Interested candidates should submit curriculum vitae, letters of recommendation, and three letters of recommendation to: Dr. Terry Magnuson, Magnon, Department of Genetics, Case Western Reserve University, 11000 Euclid Avenue, Cleveland, OH 44106-4955. Deadline is February 1, 1994. Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.
Are you interested in developing your career in one of these cutting edge disciplines?
- Mechanism of Action of Interferons
- Signal Transduction
- Molecular Regulation of Hematopoiesis
- Purification and Biology of Stem Cells
- Molecular Analysis of Chemotherapy-induced Myelotoxicity

If you are, send your curriculum vitae and the names of at least three referees to:

Chairman, Postdoctoral Search Committee  
Hipple Cancer Research Center  
4100 South Kettering Boulevard  
Dayton, Ohio 45439-2092  
Fax: 513-293-7652

The Hipple Cancer Research Center provides a creative environment with competitive salaries and excellent benefits. Affiliated with area universities and hospitals, the Hipple Cancer Research Center is supported by NCI peer-reviewed grants and contracts and private philanthropy. An Equal Opportunity, Affirmative Action Employer, the Hipple Cancer Research Center offers a smoke-free environment.

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**University of Tennessee**

The Department of Biological Sciences at the University of Tennessee at Martin invites applications for a tenure-track assistant professor position for August 1994. Ph.D. by time of employment required. The primary duty will be teaching an upper-division course in genetics and introductory biology courses. Development of an upper-division course in molecular biology is desired. All teaching is at the undergraduate level and we seek individuals committed to excellence at that level. There are other responsibilities in the department and university and interaction with students outside the classroom is expected. Research activity is expected but is secondary to teaching. Research interests can be in the area of genetics/molecular biology or related areas. Applicants should submit a letter of application, a curriculum vitae, transcripts, and three letters of recommendation from individuals who can comment on your capability as a teacher to: Dr. James E. Deck, Chair of the Search Committee, Department of Biological Sciences, University of Tennessee at Martin, Martin, TN 38238. Review of applications will begin in late November 1993, and continue until the position is filled. The University strongly encourages applications from minorities and women. The University is an Equal Opportunity/Affirmative Action/Title IX/Section 504/ADA Employer.

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**Head, Department of Statistics, North Carolina State University**

The Department of Statistics at North Carolina State University invites applications for the position of Professor and Head. The Department is one of the oldest and largest in the United States, having 39 faculty, 20 staff, 140 graduate students, and 100 undergraduate majors. It provides a dynamic environment for teaching, research, and collaborations across disciplines, with formal programs in genetic, environmental and industrial statistics, and in biostatistics. It also has strong programs in statistics education, mathematical statistics, and a wide range of other applications. The Department is a founding cooperor of the National Institute of Statistical Sciences, and, facilitated by its location in the Research Triangle, has rich research and training interactions with other nonprofit, private, and government institutions. The Department has modern computing and communications facilities for research and instruction. The Head reports to the Deans of Physical and Mathematical Sciences and of Agricultural and Life Sciences and is responsible for administrative, budgetary, and personnel matters. The Head is expected to set the highest standard for the Department with regard to scholarship and professional activities and to have a balanced appreciation for teaching, research, and consulting. Applicants should send a letter of interest, curriculum vitae, and the names of at least three references to Chair, Search Committee, Department of Statistics, North Carolina State University, Raleigh, NC 27695-8203. Review of applications will begin January 18, 1994 and continue until the position is filled. North Carolina State University is an equal opportunity, affirmative action employer and especially solicits applications from women, underrepresented minorities, and handicapped persons.

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**Scottish Programmer**

Qualified candidates must have a BS/MS in Biological Science and 3 to 5 years' programming experience in Fortran and C. Experience with UNIX and VMS operating systems and standard sequence analysis packages is required. You will work on the detection of structural motifs in nucleic acid sequences involving the application and modification of existing software as well as the development of new applications. Familiarity with sequence alignment techniques and 3-D structures of proteins as well as experience with homology modeling and programming of parallel architectures is desired. Knowledge of protein structure will be helpful.

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**ASSISTANT/ASSOCIATE PROFESSOR IMMUNOLOGY, VIROLOGY, VIRAL IMMUNOLOGY**

The Department of Molecular Microbiology and Immunology in the St. Louis University School of Medicine is undergoing a major expansion. We seek outstanding candidates with the Ph.D. or M.D. degree for 12-month tenure-track positions at the Assistant or Associate Professor level. Expertise should be in any area of immunology or virology, including HIV, viral pathogenesis, animal and transgenic models, and oncoimmunology. Immunologists interested in virus disease are especially encouraged to apply. The Medical School has active research groups in molecular virology, including HIV, tumor viruses, RNA viruses and poxviruses, in vaccine development, and in many areas of molecular and cell biology. Candidates are expected to develop a vigorous externally funded research program, and to teach medical and graduate students. Graduate students are funded by an NIH grant and by the University. Newly renovated laboratories, excellent start-up funds, and competitive salaries are offered. St. Louis is a strong center of academic and industrial biomedical research. Applicants should send their curriculum vitae, names of three references, and a brief description of research interests to: Dr. William Wold, Professor and Chairman, Department of Molecular Microbiology & Immunology, St. Louis University School of Medicine, 1402 South Grand Blvd, St. Louis, Missouri 63104 (Equal Opportunity Employer).
CALL FOR RESEARCH PROPOSALS
Environmental Release of Biotechnology Products
USEPA Office of Research and Development

The Office of Research and Development (ORD) of the U.S. Environmental Protection Agency anticipates funding new Research Cooperative Agreements in FY94 pertaining to the assessment of the ecological and human risks of releasing biotechnology products into the environment. "Biotechnology products" include recombinant or non-recombinant plants or bacteria, protists, viruses, and fungi used in pest control, bioremediation, or for other purposes.

Specific areas of emphasis are the following:

1. Field Demonstration of laboratory methods and models to track and predict the fate, movement, and nontarget effects of microbes, plants, genes, and gene products.

2. Risk Assessment of the potential effects of bioremediation agents, processes, or metabolites resulting from bioremediation processes on nontarget microbial, plant, and invertebrate communities.

3. Community stress response to biotechnology products to examine effects of stressors resulting from deliberate or accidental biotechnology products release at the population and community level.

Requests from individuals in universities and not-for-profit institutions for a copy of the complete Request for Application should be addressed to Ms. Jan Kurtz, Environmental Research Laboratory, USEPA, 1 Sabine Island Drive, Gulf Breeze, FL 32561

Phone: (904) 934-9286 FAX: (904) 934-9201

FISHERIES SCIENTIST - The Chesapeake Biological Laboratory (CBL), the University of Maryland Center for Environmental and Estuarine Studies (CEES), seeks two fishery scientists for tenure-track positions preferably at the Assistant Professor level to be based at Chesapeake Biological Laboratory (CBL). We seek candidates with experience who are productive researchers and who will be effective teachers and supervisors of graduate students. Applicants with quantitative skills in fisheries science, especially in the areas of population dynamics, fish ecology, and fishery oceanography, are encouraged to apply. Interdisciplinary research is strongly encouraged and excellent opportunities exist for collaboration with the fisheries, toxicology and environmental chemistry groups at CBL and with ecologists and oceanographers at our sister laboratories (Horn Point Environmental Laboratory and Appalachian Environmental Laboratory). Application should include personal statement of qualifications and interests, curriculum vitae, and names of at least four references. To be insured full consideration, applications should be received by 20 December 1993. CEES specifically welcomes and encourages women and minority candidates to apply.

Send applications to Dr. Edward D. Houde, Chair, Fisheries Search Committee, Chesapeake Biological Laboratory, Center for Environmental and Estuarine Studies, University of Maryland System, P.O. Box 38, Solomons, Maryland 20688.

The University of Maryland System is an Equal Opportunity, Affirmative Action Employer.

BIOLOGY FACULTY

The Department of Biology, University of Southwestern Louisiana invites applications for tenure-track positions in support of the doctoral program in Environmental and Evolutionary Biology. Faculty are expected to develop active research programs, seek extramural funding and participate in undergraduate and graduate education. The biology professorial faculty numbers 30, with research interests ranging from molecular to ecosystem studies. USL has an exceptionally well-equipped Electron Microscopy Center and Center for Advanced Computer Studies. Other resources include the Primate Research Center, Center for Crustacean Research, Center for Molecular Evolution, Louisiana Universities Marine Consortium (LUMCON) Marine Laboratory and research vessels, U.S. Fish and Wildlife Service's National Wetlands Research Center and National Marine Fisheries Service's Estuarine Habitats and Coastal Fisheries Research Center.

We anticipate hiring in the following areas:

FISH BIOLOGY - preferred research areas include molecular, developmental or evolutionary biology.

MICROBIAL ECOLOGY - preferred research areas include estuarine and marine systems, biogeochemistry or rhizospheres.

MICROBIAL GENETICS - preferred research areas include molecular or evolutionary biology.

PLANT EVOLUTIONARY BIOLOGY - preferred research areas include plant evolution, systematics or molecular studies.

NEUROBIOLOGY - preferred research areas include physiological, biochemical or developmental biology.

Applicants should submit curriculum vitae, selected reprints, a concise statement of research goals, and names, addresses and telephone numbers of three referees. Review of applications will begin 17 January 1994 and continue until positions are filled. Direct application to: Faculty Development Search Committee, Department of Biology, University of Southwestern Louisiana, Lafayette, LA 70504-2451. A/E/OE.

Two Faculty Positions
University of California, Riverside
Department of Entomology

Assistant Professor/Assistant Entomologist; Molecular Cell Biologist; Ph.D. in a Biological Science and at least 1 year postdoc experience in area of insect cell biology, molecular genetics and recombinant DNA techniques required. Tenure-track, 11-month, 20% teaching, 80% research; appointment level/salary commensurate with experience. Develop research programs on molecular biological basis of insect vectors. Basic biological processes in insects; develop novel molecular strategies to control insect pests/disease vectors. Teaching: Graduate student supervision; participation in curriculum of Entomology Department, other departments on campus. Participation in Interdepartmental Graduate Programs possible. Send curriculum vitae, reprints and manuscripts in press, names/addresses of 5 referees, and statement of research experience and interests describing how your goals are in accord with above objectives to Dr. B.A. Federici, Chair, Search Committee (address below).

Assistant Professor/Assistant Entomologist in Medical Entomology/Aquatic Ecology. Ph.D. in Entomology or Biological Science required; training and experience in medical entomology and ecology of aquatic ecosystems desirable. Tenure track, 11-month, 20% teaching, 80% research. Salary level commensurate with training and experience. Participate in teaching programs in medical/veterinary entomology or aquatic entomology. Develop field-oriented research program on population dynamics and community ecology of mosquitoes in aquatic habitats or on epidemiology of mosquito-borne diseases. Collaborative research with other UC scientists, state vector control districts, etc. encouraged. Send application letter, curriculum vitae, transcripts, reprints, names/addresses of 4 references, Ph.D. dissertation research summary, and a brief statement of career goals to Dr. B.A. Mullens, Chair, Search Committee. Address for both positions: Department of Entomology, University of California, Riverside, CA 92521-0314 (FAX 909-787-3086).

Application deadline for both positions: January 15, 1994.

The University of California is an equal opportunity/affirmative action employer.

VACANCY ANNOUNCEMENT
RESEARCH ENTOMOLOGIST. Knippling-Bushland U.S. Livestock Insects Research Laboratory, Kerrville, Texas.

The United States Department of Agriculture, Agricultural Research Service is seeking a Research Entomologist, GS-0414-11/12, to plan, coordinate, and conduct research on strategies for the management of scarabaeid resistance in cattle liver ticks and the horn fly. The specific objectives are to: (1) use nucleic acid probes to investigate the population genetics of pesticide resistance in cattle liver ticks and the horn fly; (2) develop models to simulate the effects of different management strategies on frequency of resistance genes in a target population; (3) test selected resistance management strategies to determine the most effective approaches for the control of resistant tick and horn fly populations; and (4) develop guidelines that regulatory program personnel, livestock extension specialists, and livestock producers may use in controlling populations of cattle liver ticks or the horn fly in which pesticide resistance hinders control efforts. The position is permanent with a salary range of $33,823 to $40,298 per annum.

For information on the research program/position and the required application procedures/forms, contact Dr. John George at 210/792-0338. Applications in response to this advertisement should be addressed to USDA, ARS, DAS (S-4-001) and must be post-marked by December 30, 1993. Mail application materials to USDA, ARS, Dawn McCourt, 6305 Ivy Lane, Room 341, Greenbelt, MD 20770-1435. The USDA is an equal opportunity employer.
UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH SERVICE

RESEARCH PHYSICAL SCIENTIST, USDA-ARS has a permanent position at the Remote Sensing Research Laboratory, Beltsville, Maryland. Incumbent will plan, coordinate, and conduct field experiments on agricultural crops using conventional field measurement techniques and a full range of remote sensing instruments, including satellite sensing, for the purpose of relating these measurements to plant growth and development. A scientific degree plus knowledge of plant growth process modeling and remote sensing and image processing techniques are required. A Ph.D. in a relevant scientific discipline and research experience using remote sensing are preferred. Must be a US citizen, salary commensurate with experience (range GS-12, $40,298 to $59,385; GS-13, $47,920 to $62,293). For information on the research program and or position contact Galen F. Hart, Research Leader, Remote Sensing Research Laboratory, Natural Resources Institute, Beltsville, MD 20705-2350 or call (301) 504-6822; FAX: (301) 504-5031. For the vacancy announcement and application procedures contact Rose Cunningham, ARS Personnel, 6305 Ivy Lane, Greenbelt, Maryland 20770-1435 or call 301-344-0105. Applications should be marked ARS-D-4-8003-3 and postmarked by December 20, 1993. Minorities and women are encouraged to apply. ARS is an Equal Opportunity Employer.

NIH Research Fellowship Position

The Laboratory of Molecular Biology is studying the alterations of immunologic cell function by external agents. We are presently assessing the biochemical activities of HIV accessory proteins and their capacity to modify immunologic responses. A post-doctoral opening within the laboratory is now available and can provide an opportunity for a highly capable individual to join the NIH community and to explore the biochemical mechanisms of HIV pathogenesis. Stipend range is $25,000 to $36,000, depending on training and experience. Candidates with experience in gene transfer and retrovirology or signal transduction would be given preference. Please forward curriculum vitae and the names of three references to:

Dr. Jon W. Marsh, Chief
Unit on Lymphocyte Function
Laboratory of Molecular Biology
National Institute of Mental Health
Building 36, Room 1B08
9000 Rockville Pike
Bethesda, Maryland, 20892

NIH is an Equal Opportunity Employer

The field of pharmaceuticals and health care is more rewarding than ever as new products create a healthier world population. As one of the leaders in this dynamic industry, Pfizer Inc, a Fortune 100 company, is committed to continuing its remarkable growth. We are expanding our resources to support drug discovery and development in the areas listed below.

Diabetes and Obesity, BS/MS/PhD

We are currently seeking a scientist with a PhD or equivalent in Biochemistry or related fields. Experience with either Molecular Biology techniques or with in vivo modeling required. Research experience in insulin action, carbohydrate metabolism or mechanisms controlling energy expenditure would be advantageous. Opportunities are also available for four laboratory assistant scientists. Requires a BS/MS or equivalent in a biological science, plus previous laboratory research experience, especially in the areas described above.

Drug Metabolism, BS/MS

We are looking for a BS/MS or equivalent level scientist with relevant experience in determining enzyme activities by chromatographic, spectrophotometric, and/or fluorometric methods to perform in vitro metabolism studies. Experience with additional techniques such as microsome preparation, electrophoresis (SDS PAGE, Western, Northern), and conducting induction/inhibition studies would be helpful. Specialization in a particular aspect on in vitro metabolism such as preparation of hepatocytes, liver slices, enzyme purification or cell culturing also an advantage.

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

We offer competitive salaries and flexible benefits package 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: Lynn Beaulieu, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.
CELLULAR AND MOLECULAR PHYSIOLOGY OR PHARMACOLOGY at ASSISTANT OR ASSOCIATE PROFESSOR level. Applications are invited for a tenure-track position in the Department of Veterinary Physiology and Pharmacology. Applicants should have a Ph.D. or equivalent degree and at least 3 years of postdoctoral experience. The successful candidate will be expected to develop an independent, extramurally funded, integrative research program that complements existing programs within the department and the NCI-designated Cancer Center. The candidate will be expected to: develop a demonstrated interest in translational research; a commitment to excellence and participation in one or more of our educational programs, which includes didactic, undergraduate, veterinary, and medical students; and to the goals of the department and school. Research areas of special interest include signal transduction, cell cycle regulation, receptor pharmacology, intracellular targeting, channels, and transporters. Applicants should send curriculum vitae; relevant reprints; a 1 to 3 page description of teaching interests and research plans and goals; and address, telephone, and FAX numbers of three references to: Dr. Gordon L. Coppock, School of Veterinary Medicine, Purdue University, IN 47907-1246. Review of applications will begin January 1, 1994; anticipated filing date is July 1, 1994. Minority candidates are especially welcome. Purdue University is an Equal Opportunity/Affirmative Action Employer.

EUKARYOTIC GENETICIST. The Program in Medical Sciences and the Department of Biological Science of the Florida State University invite applications for a faculty position at the assistant or associate professor level. The applicant must have a Ph.D. in molecular genetics and will be expected to develop a competitive research program that utilizes a mainstream eukaryotic model to study important molecular, cellular, organismal or developmental processes. Excellent research facilities are available, and numerous opportunities exist for interactions with ongoing research programs in genetics, cell and molecular biology, and neurobiology. Teaching responsibilities will include a cell and molecular biology course for first-year medical students that emphasizes the molecular basis of human genetic diseases. Send curriculum vitae, a concise description of research interests, and the names, addresses, and telephone numbers of three references to: Bonnie Wright, Genetics Search Committee, Program in Medical Sciences, 104 SCN, The Florida State University, Tallahassee, FL 32306-4051. Review of applications will begin January 15, 1994. The Florida State University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN BOTANY. The Department of Biology, Middle Tennessee State University, invites applications for a tenure-track position (Number 1031) at the assistant or associate professor level. Candidates must have a Ph.D. (required by first day of class) available August 1994. The successful applicant must have a broad background in morphology/anatomy of vascular plants. TEM/SEM experience is desirable. Teach lecture/laboratories in morphology/anatomy at the undergraduate/graduate level, introductory botany and general biology to undergraduates. Research/Public Service is expected. Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Application reviews begin 15 December 1993. Send application (position number, number of references, and three letters of reference to: Dr. Kurt Blum, Committee Chair, Box 521, MTSU, Murfreesboro, TN 37132.

Marquette University Biology Department invites applications for a tenure-track ASSISTANT PROFESSOR, beginning in August 1994, to teach a one-semester course in introductory molecular biology and a graduate lecture or seminar course in his/her specialty in alternate years. The candidate is expected to establish an independent, extramurally funded research program and to train Ph.D. students. Must have postdoctoral training. Research emphasis in ecology, plant biology or microbiology, molecular biology/virology, cell biology, physiology, and biophysics. Send curriculum vitae, and name and address of three references by February 1, 1994, to: Dr. Walter Fredrick, Department of Biology, Marquette University, Milwaukee, WI 53233. POSITION CONTINGENT ON BUDGET APPROVAL. Marquette is an Equal Employment Opportunity and Affirmative Action Employer.

ENVIRONMENTAL PHYSIOLOGY Applications are invited for a n tenure-track ASSISTANT or ASSOCIATE PROFESSOR in environmental physiology, with interests focusing upon how organisms, populations and/or communities respond, acclimate or adapt to changing environments. Research areas might include biochemical or physiological mechanisms that regulate responses to chemical stresses or effects of stress on such systems as respiration function, osmoregulation, locomotor activity or behavior. Preference will be given to candidates who work with marine invertebrates, fish, or amphibians. In addition to establishing a strong program, experience with extramural fund raising programs is desirable. The successful candidate will be expected to: develop a competitive research program; conduct research projects to support extramurally funded research; and participate in college activities. Interested candidates are invited to apply by sending a complete CV to: Dr. C. H. H. Grant, Director, College of Natural Sciences, University of Kentucky, Lexington, KY 40506-0225. An Equal Opportunity/Affirmative Action Employer.
WORLD AIDS FOUNDATION

The World AIDS Foundation (WAF) announces its intent to support research and education relating to AIDS in the developing world. The goal of the WAF is to facilitate information exchange and to assist developing countries to respond to the AIDS pandemic.

The main area of interest of the WAF is education for health professionals in developing countries, especially in-country training. This includes highly focused workshops which enhance the scientific process and transfer knowledge needed in the effort against HIV infection and AIDS.

The Foundation is particularly interested in projects that are catalytic, and once in place could have a multiplicative effect. Projects that involve collaboration with the WHO Global Programme on AIDS are of particular interest. The WAF is also interested in applications that originate from developing countries and which emphasize collaboration between and among scientists, physicians and public health workers from developing and developed countries. Of special interest are projects which respond to the anticipated increase in HIV infection in South-East Asia and Western Pacific.

The limit of any single funding request to the Foundation is $200,000.

Application Procedures:

Concept letters and applications may be prepared in either English or French. Applicants should submit concept letters for initial consideration. Following review of concept letters, applicants may be invited to submit complete proposals. The annual deadline for receipt of concept letters is February 1, 1994. However, applicants are encouraged to submit their concepts as soon as possible to assure the greatest amount of time to develop their full proposal.

Concept letters and inquiries should be directed by mail or by fax to either:

World AIDS Foundation
Assistant Secretary for Health
c/o Director,
Fogarty International Center
National Institutes of Health
Building 31, Room B2C02
9000 Rockville Pike
Bethesda, Maryland 20892 U.S.A.
Fax: (301) 402-2056

or

Fondation Mondiale SIDA
c/o Directeur de l'Institut Pasteur
28 rue du Docteur Roux
75724 Paris, Cedex 15 FRANCE
Fax: 0033-1-45688938

Announcement and call for abstracts for conference on

PATHOGENESIS OF HIV INFECTION OF THE BRAIN:
IMPACT ON FUNCTION AND BEHAVIOR

April 4- April 7, 1994
Westfield Conference Center
Chantilly, Virginia, USA

Organized by:
Office on AIDS and
Division of Neuroscience and
Behavioral Science
National Institute of Mental Health, NIH

To receive conference registration and abstract submission information, please call or write to:

NeuroAIDS Conference Coordinator
Circle Solutions
8201 Greensboro Drive, Suite 600
McLean, VA 22102
703/821-8955 ext. 480
FAX 703/821-2098

Deadline for abstracts of posters is February 4, 1994
POSITIONS OPEN

FACULTY POSITION
LSUMC STANLEY S. SCOTT CANCER CENTER

The LSUMC Stanley S. Scott Cancer Center has an integrated basic and clinical research program to investigate the molecular aspects of neoplastic transformation. We are recruiting an individual at the ASSISTANT PROFESSOR level to develop and sustain an outstanding program in cancer biology. While applications in all areas of cancer research are welcome, individuals with research experience and interests in molecular oncogenics, tumour suppression genes/oncogenes, or cancer gene therapy are particularly encouraged to apply. The successful applicant will hold a tenure-track position with a major focus on science department. The salary and the start-up package are highly competitive. Requirements are a Ph.D. and/or M.D., subsequent postdoctoral training, and evidence of excellent research productivity and promise. Applicants should submit curriculum vitae, a three-page summary of research goals, and the names of three references to: Wayne V. Vedeckis, Ph.D., Chairman, Cancer Center Search Committee, Department of Biochemistry and Molecular Biology, Louisiana State University Medical Center, 1901 Perdido Street, New Orleans, LA 70112. LSU Medical Center is an Equal Employment Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ECOLOGIST
LIBERAL ARTS COLLEGE

The Augsburg College Biology Department seeks a broadly trained ecologist for a tenure-track position at the ASSISTANT PROFESSOR level, beginning September 1, 1994. Responsibilities will include, but are not limited to, an upper-level ecology course, participation in the introductory biology program for majors, and courses for non-majors. Preferences include Ph.D., commitment to teaching at the undergraduate level, and potential to involve students in research. Augsburg is a private, coeducational liberal arts college located in Minneapolis, Minnesota, and is affiliated with the Evangelical Lutheran Church in America. Enrolling a cohort of 3,100 students. We seek an individual committed to the educational mission of our urban, church-related, liberal arts college to educate and support a diverse student body. Send letter of interest, curriculum vitae, and graduate and undergraduate transcripts, and arrange to have three letters of reference sent to: Personnel Department, Augsburg College, 2211 Riverside Avenue, Minneapolis, MN 55445. Deadline for applications is January 15, 1994. Augsburg College is an Affirmative Action Employer.

ELECTROPHYSIOLOGIST/HISTOCHEMIST
with experience in the olfactory system; ASSISTANT or ASSOCIATE PROFESSOR level (non-tenure-track). To join an established and developing program, we are seeking an independent research program with extramural funding is expected. Interest in centrifugal olfactory pathways, use of cell culture and olfactory slice preparations. Contact: Dr. Richard L. Doty, Director, Smell and Taste Center, Department of Otorhinolaryngology, Head and Neck Surgery, University of Pennsylvania School of Medicine, 3400 Spruce Street—5 Ravdin, Philadelphia, PA 19104.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Department of Brain and Cognitive Sciences

The MIT Department of Brain and Cognitive Sciences anticipates making a tenure-track appointment in computational brain and cognitive science at the ASSISTANT PROFESSOR level. Candidates should have a strong mathematical background and an active research interest in the neural modeling of olfactory or cognitive phenomena. Individuals whose research focuses on learning and memory are especially encouraged to apply. Responsibilities include graduate and undergraduate teaching and supervision of research. Applications should include a brief letter stating the candidate's research and teaching interests, curriculum vitae, and three letters of recommendation. Send applications by January 15, 1994, to: Dr. Michael L. Jordan, Faculty Search Committee, Department of Brain and Cognitive Science, 77 Massachusetts Avenue, Cambridge, MA 02139-4307. Qualified women and minorities are especially encouraged to apply. MIT is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

Cornell University
Section of Biochemistry, Molecular and Cell Biology

Applications are invited for a tenure-track ASSISTANT PRO- FESSOR in Biochemistry. Candidates with research interests in Biological Chemistry will be considered. Position will be open until filled. Review of applications will begin February 1, 1994. Applications should be sent to: Prof. Donald T. Perutz, Department of Molecular and Cell Biology, Cornell University, Ithaca, NY 14853. Applications from women and minority group members are encouraged.

LOYOLA UNIVERSITY CHICAGO
DEPARTMENT OF BIOLOGY

TWO TENURE-TRACK FACULTY POSITIONS

The Department of Biology at Loyola University Chicago seeks to hire two individuals at the level of ASSISTANT PROFESSOR starting in August, 1994. The following areas are of interest: (1) DEVELOPMENTAL BIOLOGIST, with training in developmental biology, and (2) ENVIRONMENTAL ZOOLOGIST, with training in aquatic systems, capable of teaching general biology. Candidates must possess a Ph.D. degree (postdoctoral experience is preferred) and be expected to teach both required and special courses at the undergraduate and graduate levels. Individuals must develop a research program that includes publication, pursuing extramural funding, and training graduate students. Candidates should submit a letter of application, curriculum vitae, statement of teaching and research interests, significant reprints, and three letters of recommendation by January 15, 1994, to: Dr. John Smarelli, Chairman, Department of Biology, Loyola University Chicago, 6525 North Sheridan Road, Chicago, IL 60626. Loyola University Chicago is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION in Forest Community Ecology, University of California, Berkeley, to start July 1, 1994. ASSISTANT PROFESSOR, tenure-track, Ph.D. in ecology, Botany, Forestry or related field required. Expertise to include ecosystem studies, biological diversity, and forest ecology as applied to silviculture and forest management. Teaching responsibilities include an undergraduate course in forest community ecology, a graduate course in forest ecology, and participation in teaching at the introductory level. Send application, resume, list of publications, transcripts, and names of four references before January 31, 1994, to: James W. Bartolome, Chair Search Committee, Department of Environmental Science, Policy, and Management, 145 Mulford Hall, University of California, Berkeley, CA 94720. For more information and full position description, call (510) 642-0376. University of California is an Equal Opportunity/Affirmative Action Employer.

ANALYTICAL CHEMIST—ASSISTANT PROFESSOR—FACULTY, tenure-track, Ph.D., September 1, 1994: teach general chemistry and analytical chemistry. The candidate's potential as a teacher and researcher for an undergraduate program is a major consideration. Send applications to: Dr. John Horan, Chairman, Biochemistry Department, Rensselaer Polytechnic Institute, 110 8th Street, Troy, NY 12180. forwarding a letter of application, curriculum vitae, a three-page statement of research background and resultant publication in refereed journals. Application deadline is December 15, 1993. Rensselaer Polytechnic Institute is an equal opportunity employer.

POSITIONS OPEN

LOYOLA UNIVERSITY CHICAGO
DEPARTMENT OF BIOMEDICAL SCIENCES

ASSISTANT PROFESSOR—PHYSICAL CHEMISTRY—AMHERST COLLEGE. A full-time tenure-track faculty position is available for a Ph.D. experimental physical chemist beginning in July 1994. The successful candidate will be expected to teach introductory chemistry as well as physical chemistry at the advanced undergraduate level, and will be encouraged to participate in interdisciplinary teaching, scholarship, and grantsmanship. An additional goal is to establish a vigorous research program in which undergraduates can substantively participate. The research program can be developed within one or more areas of physical chemistry, as well as from fields that span the boundaries between physical chemistry and other sciences. Amherst College, a private four-year liberal arts college, enrolls 1,580 students and 165 faculty located in the Connecticut River Valley of Western Massachusetts, participates with Hampden-Sydney College and the University of Massachusetts at Amherst, in the Five College Consortium. Applicants must submit a detailed curriculum vitae and a description of their teaching and research plans, and should arrange for the forwarding of three letters of reference, all to: Dr. J. N. Kushick, Chairman, Department of Chemistry, Amherst College, Amherst, MA 01002. Amherst College is an Equal Opportunity/Affirmative Action Employer and especially welcomes applications from women, minority and disabled candidates.
Cardiovascular Disease

COR Therapeutics, Inc. is a publicly-held biopharmaceutical company located in the San Francisco Bay Area. We specialize in the discovery and development of novel therapeutics for the treatment of various aspects of cardiovascular disease. COR is actively recruiting two highly qualified Scientific Directors with proven track records to join our multidisciplinary research teams.

Director
Cardiovascular Pharmacology

This position will have the opportunity to direct an established research facility which interacts extensively with ongoing research programs. The Director will be responsible for determining the in vivo pharmacology and therapeutic potential of new agents designed for the treatment of thrombosis, restenosis and cardiovascular-associated inflammation.

The successful candidate will have 7-10 years of experience in the development and characterization of cardiovascular models, preferably within a pharmaceutical or biotechnology company, and a Ph.D., M.D. or D.V.M with training in Pharmacology, Physiology or related field. Candidates should have a proven track record in the pharmacological evaluation of therapeutics in a cardiovascular disease area as demonstrated through publications and/or product development. Candidates should also have outstanding interpersonal skills and the ability to lead an interdisciplinary research team. (Job Code R14-93-S)

Director
Natural Products Chemistry

This position will have the opportunity to establish and direct a new Natural Products Chemistry facility at COR. The Director will interact extensively with ongoing research programs and will be responsible for purification and structural determination of novel compounds. The Natural Products Chemistry facility will also provide structural analytical determinations for Medicinal Chemistry.

The successful candidate will have a Ph.D. in Chemistry or related field with 7-10 years of experience in a pharmaceutical or biotechnology company focused on the isolation, characterization and evaluation of compounds from a variety of naturally occurring sources. Candidates should have a proven track record in the discovery and characterization of naturally occurring compounds. (Job Code R13-93-S)

COR Therapeutics, Inc. offers competitive salaries, benefits and attractive equity positions to its employees combined with the challenge and opportunity to make significant research contributions. To apply, please send curriculum vitae to: COR Therapeutics, Inc., Human Resources, 256 East Grand Avenue, South San Francisco, CA 94080. Please reference Job Code in correspondence. COR is an Equal Opportunity Employer.

CENTER FOR AGRICULTURAL BIOTECHNOLOGY
UNIVERSITY OF MARYLAND BIOTECHNOLOGY INSTITUTE

FACULTY POSITION
BIOCHEMICAL ENGINEERING

Applications are invited for a 9½-month tenure-track position available August 17, 1994 or thereafter within the Center for Agricultural Biotechnology (CAB). CAB is an interdisciplinary research center that includes basic and applied molecular biologists (currently 9) and biochemical engineers (currently 2), with at least five more faculty-level appointments to be made over the next several years. Rank is open, but ASSISTANT PROFESSOR is preferred. The appointee will hold affiliate status in the Department of Chemical Engineering at the University of Maryland College Park, will teach a 1-semester course each academic year, and will have the opportunity to train graduate students through the department. The appointee will build an independent engineering research program that relates to CAB's foci—plant-pathogen interactions, insect genetic engineering, and poultry viruses and vaccine production. Interactions with basic and applied molecular biologists within CAB are expected. Appointee must have a solid background both in biochemical engineering and molecular biology. Curriculum vitae, statement of research interests, reprints of relevant publications, and names and addresses of three recommenders should be sent to: Dr. William Bentley, Search Committee Chair, Center for Agricultural Biotechnology, University of Maryland, Agriculture/Life Sciences Surge Bldg, College Park, MD 20742. Telephone: (301) 405-1906; FAX: (301) 314-9075. The application deadline is January 7, 1994.

Women and minority candidates are encouraged to apply.
An Equal Opportunity/Affirmative Action Employer.
The School of Forestry, Auburn University, is soliciting applications for a tenure-track, twelve-month faculty position in tree physiology. The position involves an active role in undergraduate and graduate education and research in tree physiology that complements one or more of the School's strengths in ecology, nurseries, and regeneration. Teaching will include an undergraduate course in tree physiology and at least one graduate course in the candidate's specialization.

Applications must have completed the requirements for a Ph.D. in majoring in tree physiology, forest ecophysiology or closely related field. Experience in one or more of the following is preferred: root systems or below-ground physiology, plant morphology, forest meteorology, plant competition. Research experience beyond the Ph.D. and, professional or educational experience in forestry are desirable.

Send a letter of interest, curriculum vitae, transcripts, and addresses for three references to: Lenore Martin, School of Forestry, Auburn University, AL 36849-5418; Phone: (205) 844-1007. Closing date for applications is March 1, 1994. For more information contact: Bob Jones, School of Forestry, Telephone: (205) 844-5418.

**CELL BIOLOGIST—ASSOCIATE PROFESSOR**

The Biology Department of Hobart and William Smith Colleges invites applications for a tenure-track position starting July 1, 1994, pending final approval. Individuals interested in eukaryotic cell biology are encouraged to apply. Responsibilities include teaching a course in cell biology, participating in a physiology course and an introductory biology course, and contributing to the Colleges' general curriculum. In addition, the candidate is expected to demonstrate excellence in teaching and implement a research program that involves undergraduate students. Candidates must have completed the Ph.D. degree by the starting date. Hobart College for men and William Smith College for women are coordinate residential colleges located on Seneca Lake in upstate New York. The Biology Department has just received a four-year grant from the Howard Hughes Medical Institute and a new facility for biology and chemistry will be completed in summer 1994. Applicants should send curriculum vitae, a statement of teaching philosophy, a statement of research interests, official transcripts for all degrees received, and three letters of reference to: Dr. Joel Kerlan, Biology Department, Hobart & William Smith Colleges, Geneva, NY 14456. To ensure full consideration, applications should be received by December 15, 1993. Equal Opportunity/Active Affirmative Action Employer.

**FACULTY POSITIONS at The Ohio State University**

The Department of Chemistry seeks to fill tenure-track faculty positions at the ASSISTANT PROFESSOR level to begin September 1994. Outstanding candidates at all levels will be considered. Broadly defined areas of interest are biological chemistry and theoretical chemistry. Demonstrated excellence in innovative research and commitment to teaching at both undergraduate and graduate levels are essential. Candidates should submit curriculum vitae, graduate transcripts, list of publications, statements of research and teaching interests, and three letters of recommendation to: Professor Russell M. Pitzer, Chair, Department of Chemistry, The Ohio State University, 120 West 18th Avenue, Columbus, OH 43210-1177. Review of applications will start January 1, 1994. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

**CLINICAL LAB DIRECTOR**

For Fort Lauderdale Laboratory, Ph.D. or M.D./Ph.D. candidate must be Florida licensable in Flow Cytometry, Hematology and Histochemistry with interests in Clinical Toxicology and Immunology. Applications accepted. Please fax curriculum vitae and salary requirements to: Ann Marie E. Patsy, Telephone: (305) 767-4718.

**DIRECTOR OF MONOCLONAL CORE FACILITY**

Director of newly funded monoclonal Core Facility in the Department of Pediatrics, Case Western Reserve University. This individual will be responsible for making monoclonal antibodies oriented to Cystic Fibrosis Research, screening hybridomas, purification of antibodies and directing the Core. Significant experience in making monoclonal antibodies, cell culture and molecular biology required. Opportunity for postdoctoral-level independent research. Send curriculum vitae and names of three referees by December 1, 1993, to: Denise Zakher, Department of Cell Biology, Harvard Medical School, 25 Shattuck Street, Boston, MA 02115.

**DIRECTOR RESEARCH**

National professional association is looking for director to develop programs to assist researchers in communication disorders and sciences. Responsibilities include: development and implementation of mechanisms to provide information and expansion of research within the disciplines. A doctoral degree in Audiology, Speech-Language Pathology, Psychology or a related field and 2 years of relevant experience are required. Send resumes to: ASHA, 1230 17th St., NW, Suite 300, Washington, DC 20006. Equal Opportunity Employer.

**NMR FACILITIES DIRECTOR**

Montana State University seeks a Ph.D. NMR facilities director to encourage the use of the NMR facilities for research and teaching on campus. Candidate must have a demonstrated commitment to encouraging use of the NMR facilities for teaching and research. Please submit curriculum vitae and statement of interest to: Robert J. Ogan, Chair, NMR Facilities Search Committee, Department of Chemistry and Biochemistry, Montana State University, Bozeman, MT 59717; Phone: (406) 994-5407. Equal Opportunity/Affirmative Action Employer.

**THE GENE THERAPY PROGRAM OF THE UNIVERSITY OF ALABAMA AT BIRMINGHAM**

We are offering faculty positions at the ASSISTANT and ASSOCIATE level for tenure-track positions. M.D. and Ph.D. candidates with an interest in pursuing careers in gene therapy related to basic or clinical science are encouraged to apply. Candidates should have demonstrated research interest in the use of recombinant DNA technology for gene therapy, and a desire to collaborate with investigators in the Department of Biology and the Department of Cell Biology. Applications should be sent to: The Search Committee, Gene Therapy Program, University of Alabama at Birmingham, 171 Ashley Avenue, Charleston, SC 29425-2236. A position is available for an Equal Opportunity/Active Affirmative Action Employer.

**POSITIONS OPEN**

**ASSISTANT/ASSOCIATE PROFESSOR**

**TREE PHYSIOLOGY**

The Department of Biological Sciences at Wright State University invites applications for an Assistant Professor position in Tree Physiology. Wright State University is a comprehensive public university with an enrollment of over 17,000. The Biological Sciences Department includes 20 full-time faculty, over 400 undergraduate majors and 40 graduate students. Applicants must have postdoctoral research experience in cellular or molecular aspects of development. Teaching duties will involve development of a new developmental biology emphasizing cellular/molecular development and developmental genetics. The successful candidate will also be expected to participate in Developmental Biologist Search Committee, Department of Biological Sciences, Wright State University, Dayton, OH 45435. We will begin reviewing applications on 17 January 1994. Priority is an Equal Opportunity/Active Affirmative Action Employer.

**Medical University of South Carolina (MUSC)**

**ASSISTANT PROFESSOR—MOLECULAR BIOLOGIST**

The retinal-biochemistry group of the Vision Research Division of the Ophthalmology Department is inviting applications for a tenure-track Assistant Professor position available immediately. Candidates should have a Ph.D. or M.D., postdoctoral training, demonstrated ability to develop and fund a laboratory, and a desire to collaborate with both basic scientists and clinicians. The successful candidate will join the research program in rhodopsin structure, function, and regeneration. This position is one of a group of projects on vision research and develop independent funding. Please send curriculum vitae and references to: Rosalie K. Crouch, Ph.D., Department of Ophthalmology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425-2236. MUSC is an Equal Opportunity Employer and encourages applications from women and minorities.

**POSITIONS OPEN**

**DEVELOPMENTAL BIOLOGIST: ASSISTANT PROFESSOR**

The Department of Biological Sciences at Wright State University invites applications for an Assistant Professor position in Developmental Biology. The individual will contribute to the University's comprehensive public university with an enrollment of over 17,000. The Biological Sciences Department includes 20 full-time faculty, over 400 undergraduate majors and 40 graduate students. Applicants must have postdoctoral research experience in cellular or molecular aspects of development. Teaching duties will involve development of a new developmental biology emphasizing cellular/molecular development and developmental genetics. The successful candidate will also be expected to participate in Developmental Biologist Search Committee, Department of Biological Sciences, Wright State University, Dayton, OH 45435. We will begin reviewing applications on 17 January 1994. Priority is an Equal Opportunity/Active Affirmative Action Employer.
CHIEF OF CYTOGENETICS LABORATORY

The Department of Pathology at Roswell Park Cancer Institute is recruiting for a Chief of Cyto genetics. The successful candidate must have extensive training in the field of human cyto genetics, a preferable minimum of three-five years experience and a track record of publications commensurate with level of experience. The cyto genetics laboratory at RPCI has a tradition of excellence and scholarly activity, which is expected to continue. The candidate is expected to develop an ongoing clinical-based research program to support the variety of cancer research programs around the institute. A genetics program is being developed to center upon the study of population groups with familial and genetic cancer syndromes. The candidate is expected to become involved in the clinical aspects of this effort and provide support to basic scientists around the institute.

Interested candidates should forward their CV and 3 references to John J. Brooks, M.D., MRCPath, Chairman, Department of Pathology, Roswell Park Cancer Institute, Elm & Carlton Street, Buffalo, NY 14263.

Roswell Park Cancer Institute is an M/F/D/V Affirmative Action Employer.

PHYSICIAN/SCIENTIST

The Arthritis and Rheumatism Branch (ARB) of the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institutes of Health (NIH), Public Health Service (PHS), which conducts laboratory and clinical research related to immunology, inflammation, and particularly autoimmune and autoimmune diseases, is recruiting for two tenure-track or tenured positions.

One position requires the expertise of a physician/scientist who will develop an independent research program involving both laboratory and clinical research. In addition to laboratory and office space, common facilities are available.

The second position requires the expertise of a physician/clinical investigator who will develop an independent clinical research program related to the rheumatic diseases. Opportunities include both inpatient and outpatient research and collaborations with research scientists and clinical investigators on the NIH campus.

Candidates for both positions must hold an M.D. degree and be Board Eligible or Board certified in Rheumatology. Salary is $39,000 to $108,200 depending on experience and the type of appointment.

Send curriculum vitae, bibliography, a list of three individuals who can serve as references, and a one-page summary of research plans and interest to

Dr. Henry Metzger
Chief, ARB
9000 Rockville Pike
Building 10, Room 9N228
NIAMS, NIH
Bethesda, MD 20892

NIH is an an Equal Opportunity Employer.

DIRECTOR, DIVISION OF CHEMISTRY
NATIONAL SCIENCE FOUNDATION
Arlington, VA 22230

NSF's Directorate for Mathematical and Physical Sciences seeks qualified candidates for the position of Director, Division of Chemistry. The incumbent will provide management and direction to the Division which includes research support programs in areas involving Analytical and Surface Chemistry; Chemical Instrumentation; Inorganic, and Organometallic Chemistry; Organic Chemical Dynamics; Organic Synthesis; Experimental Physical Chemistry and Theoretical and Computational Chemistry.

Appointment to this Senior Executive Service position may be on a career or 2- to 3-year limited term basis, with a $92,900 to $107,300 salary range. Alternatively, selected may be assigned under Intergovernmental Personnel Act provisions, retaining current salary and benefits. Applicants must have a Ph.D. or professional experience in chemistry or closely related field; substantial research experience and strong evidence of scholarship in chemistry or recognized leadership in research administration; and demonstrated supervisory skills.

Applicants should contact George Pettit on 703-306-1187 or george.pettit@nrc.gov (私は失礼します) for more information. Applications should be received by January 14, 1994.

NSF is an Equal Opportunity Employer committed to employing a highly qualified staff that reflects the diversity of our nation.

POLIPULATION GENETICIST

Department of Medical Genetics
The University of British Columbia

The Department of Medical Genetics invites applications for a grant tenured position in the area of Human Population Genetics. Appointment will be at the Assistant Professor level with the possibility of a higher rank for a suitable candidate with more experience.

Candidates for this position must have a doctoral degree, a minimum of two years' post-doctoral experience, and demonstration of outstanding research abilities. The successful candidate will be expected to develop a vigorous, independent research program in an interactive environment, and should be an enthusiastic teacher. The anticipated start date is January 1, 1994. For applications for January 1, 1994 or until such time as a suitable candidate is identified, salary will be commensurate with qualifications.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

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

Applications, including a curriculum vitae, selected reprints, a statement of research interests and present research activities, and the names of three referees should be sent to:

Dr. J.M. Friedman, Head
Department of Medical Genetics
The University of British Columbia
B.C.'s Children's Hospital at Shangton Road
Room C391, 4500 Oak Street
Vancouver, B.C. CANADA V6H 3N1

RESEARCH HORTICULTURIST

USDA-ARS has a permanent position at the Remote Sensing Research Laboratory, Beltsville, Maryland. Incumbent will plan, coordinate, and conduct experiments for estimating crop yields. Experiments will be conducted in greenhouse, controlled environment growth chambers and in the field. A degree in Horticulture or related discipline plus knowledge of crop physiology and plant growth process modeling is required. A Ph.D. and research experience in the subject area are preferred. Must be a U.S. citizen, salary commensurate with experience (range GS-12, $40,298 to $52,385; GS-13, $47,920 to $62,293). For information on the research program and for position contact Galen F. Hart, Research Leader, Remote Sensing Research Laboratory, Natural Resources Institute, Beltsville, MD 20705-2350 or call (301) 504-6822; FAX: (301) 504-5031. For the vacancy announcement and application procedures contact Rose Cunningham, ARS Personnel, 6305 Ivey Lane, Greenbelt, Maryland 20770-1435 or call 301-344-0105. Applications should be marked ARS-D-4-8004-3 and post-marked by December 20, 1993. Minorities and women are encouraged to apply. ARS is an Equal Opportunity Employer.


**COLUMBIA UNIVERSITY, Psychology Department**

Invites applications from doctoral candidates to begin September 1, 1994. **HUMAN COGNITION**

Applications at any level will be considered, but of special interest is a senior scientist with a record of outstanding research contributions to understanding commitment to undergraduate and graduate teaching; send applications and recommendation letters to **BOX 28**, **BEHAVIORAL NEUROSCIENCE**, broadly defined: candidates should provide evidence of research excellence and strong commitment to graduate and undergraduate education; of particular interest are those who can contribute to the Department's strength; send curriculum vitae, relevant papers, and three letters of reference to **BOX 29**. Submit complete applications to: Dr. William K. Chase, Search Committee, **BOX 40**, 406 Schermerhorn Hall, Columbia University, New York, NY 10027. Affirmative Action/Equal Opportunity Employer.

**TRAINING PROGRAM IN DIABETES RESEARCH**

**AT WASHINGTON UNIVERSITY SCHOOL OF MEDICINE**

**ST. LOUIS, MISSOURI**

**POSTDOCTORAL POSITIONS** are available in the use of modern cellular and molecular techniques to investigate diabetesthe biology of different disease states. Trainees will be offered opportunities in the following areas of diabetes research: cellular mechanisms in insulin secretion by B-cells, intracellular signal transduction processes, insulin action on target cells, islet transplantation, autoimmunity and the role of nitric oxide and cytokines, and perturbations of neurological complications. U.S. citizenship or permanent resident status is required. Salary on NIH scale. For information, please contact: Dr. Michael L. McDaniel, Box 8118, Washington University School of Medicine, Department of Pathology, St. Louis, MO 63110. Telephone: 314-362-7435. FAX: 314-362-4096. Washington University is an Equal Opportunity Employer. We are particularly interested in minority applicants.

**POSTDOCTORAL POSITION**

**DANA-FARBER CANCER INSTITUTE**

A postdoctoral position is available immediately for a study of immunodeficiency after allogeneic bone marrow transplantation. Cellular or molecular immunology training will be helpful. Send curriculum vitae and names and telephone numbers of three references to: Dr. Ilonna J. Rimm, Dana 1610C, DFCC, 44 Binney Street, Boston, MA 02115. Telephone: 617-632-3804, FAX: 617-632-2085.

**POSTDOCTORAL POSITIONS** are available to explore macrophage and granuloma alcohol/retinol dehydrogenase gene family. Projects will include studies on its role in retinoic acid synthesis during mouse development, gene regulation, and fetal alcohol syndro -me. Ph.D. with molecular biology, biochemistry or embryology. Send curriculum vitae and letters of reference to: Dr. Gregg Duester, La Jolla Cancer Research Foundation, 12001 North Torrey Pines Road, La Jolla, CA 92037.

**SNI POSTDOCTORAL POSITION**

**POSTDOCTORAL POSITIONS** available to study Mechanism of Autoimmune Skin Diseases. Two years of experience in Molecular Biology and/or Biochemistry required. Background in Immunology preferred. Present work on Regulation of Immune Response and T Cell involvement in Autoimmunity. Faculty appointment possible in near future. Send curriculum vitae, recent publications and names of three references to: A. R. Ahmed, M.D., Department of Dermatology, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118.

**POSTDOCTORAL POSITION**

**HARVARD MEDICAL SCHOOL**

Opportunity available to study molecular mechanisms of macrophage adhesion to vascular endothelium during inflammation. Experience in gene cloning, molecular biology and cell biology required. Please send curriculum vitae, recent research experience and 3 letters of reference to: Francis W. Luscinskas, Ph.D., Vascular Research Division, Brigham and Women's Hospital, 221 Longwood Avenue, Boston, MA 02115. Equal Opportunity/Affirmative Action Employer.
PHARMACEUTICAL RESEARCH

Zeneca Pharmaceuticals Group (formerly ICI Pharmaceuticals Group), dedicated to the challenge of discovering and developing important new therapeutic agents, has the following openings in the Pulmonary Pharmacology Group at our suburban Wilmington, Delaware location.

IMMUNOPHARMACOLOGIST

We seek an immunopharmacologist to study the role of cytokines in various aspects of airway allergy and inflammation, and contribute to drug discovery research. A background in inflammation, allergy or immune models is necessary. A PhD with postdoctoral experience in Immunology, Molecular Biology, Pathology, Pharmacology or a related biological science and a proven record of scientific achievement is sought. Must demonstrate leadership capability to create innovative research plans and supervise assistants.

ENCEZYMOLIST

We seek an enzymologist to study the role of proteases in pulmonary hypertension and contribute to drug discovery research. A PhD with postdoctoral experience in Enzymology, Biochemistry, Molecular Biology, Pharmacology or related discipline and a proven record of scientific achievement is sought. Must demonstrate leadership capability to create innovative research plans and supervise scientific staff.

CAROVOUS OR PULMONARY PHARMACOLOGIST

We seek a cardiovascular or pulmonary pharmacologist to study the role of various mediators in pulmonary hypertension and contribute to drug discovery efforts. Experience in laboratory techniques related to the development of new assays using Pharmacology, Enzymology, receptor interactions or in vivo techniques would be very useful.

We offer competitive compensation, comprehensive flexible benefits, a unique investment plan, and the opportunity for growth with one of the world’s leading pharmaceutical research organizations.

If you are interested in joining a team of scientists from a broad range of disciplines in an industrial pharmaceutical research environment, please submit c.v. to: Melanie M. Lewis, Human Resources Dept., Zeneca Pharmaceuticals Group, 1800 Concord Pike, Wilmington, DE 19897. An Equal Opportunity Employer M/F.

ZENECA
Pharmaceuticals Group

ZENECA Pharmaceuticals/Stuart Pharmaceuticals
Business Units of ZENECA Inc.

Our entrepreneurial environment naturally evolves as a function of our mission: the development of recombinant DNA-based human therapeutics, utilizing the principles of cellular and molecular biology...through rapid product development and innovative commercialization strategies. We currently have a career opportunity in our Process Development Group for a:

RESEARCH SCIENTIST

Reporting to the Laboratory Head, Cell Culture Process Development, you will be responsible for providing biological insight and input into the development of scalable processes with a variety of mammalian cell lines. The selected candidate will research cell characteristics and culture conditions to determine optimum growth environments for successful scale-up and will develop novel serum-free media formulations for growth and culture of suspension- and anchorage-dependent mammalian cells. You will serve as the resident “cell expert” within the Process Development Group. Additionally, you will supervise two Research Associates; assist the Vector Development Group in the identification of cell lines that exhibit the most desirable scale-up characteristics; and provide guidance to the Analytical Group in the development of new assays.

Candidates must have a Ph.D. in biological sciences with emphasis on cell physiology, biochemistry and/or molecular biology desirable. Industrial experience in Process Development and a research background involving several different mammalian cells and culture conditions are required.

At Amgen, our staff plays an integral role in maintaining the highest of standards and product excellence. We offer a highly competitive compensation and benefits package. If you’re interested in this position, please FAX/mail your resume to: FAX: (805) 447-1985, Amgen, Inc., Staffing, Job Code OA-SC-LD-006, Amgen Center, Thousand Oaks, CA 91320-1789. Please, principals only.

AMGEN
We are an equal opportunity employer M/F/D/V.
The document appears to be a collection of job openings and positions. Here is a structured summary of each section:

**PHARMACEUTICAL SCIENTIST**
- Design/implement kinetic methods to study solution and enzymatic reactions.
- Apply high performance liquid chromatography (HPLC) and UV methods. Perform analyses using UV, NMR, LC and IR.
- Interpret spectral and chromatographic data. Experience in experimental design to allow determination of kinetic parameters and chemical of therapeutic importance.
- Knowledge of following acquired through academic studies or work experience. Design and synthesis of potent inhibitors. Some agents affecting enzyme-protein systems.
- **In vitro** evaluation of these systems with enzyme models by chromatographic and spectroscopic methods (equilibrium dialysis, GLC, PT-IR, spectrophotometer, NMR, spectrometer). Design and conduct kinetic studies of related reactions and determine stability, solubility and other physico chemical properties of drug entities. Perform formulation studies. Develop analytical methods to follow solution kinetics. Interpret kinetic data to establish chemical and biochemical reaction mechanisms. Conduct synthesis and analytical work in organophosphorous pharmacologists. Ph.D. in Organic Chemistry required. 40 hours per week; $45,428 per year. All resumes must include Social Security Number. Respond to Job Order # NC3031267 and DCB code 022.061-010 at your nearest Job Service office or to Job Service, 1105 Briggs Avenue, Durham, NC 27703.

**POSTDOCTORAL POSITION**
- **YALE UNIVERSITY SCHOOL OF MEDICINE**
  - Available to study the intracellular trafficking and transport of mRNAs and mRNAs. Please curriculum vitae to: Susan Slaeger, M.D., Ph.D., Associate Professor of Therapeutic Radiology and Genetics, Yale School of Medicine, Department of Therapeutic Radiology, 333 Cedar Street, New Haven, CT 06510 or fax (203) 785-6309.

**POSTDOCTORAL POSITION IN NEMATEODE CELL BIOLOGY**
- Postdoctoral position available to study proteins required for the assembly of actin filaments in nematode cell membranes in the muscle of the nematode Caenorhabditis elegans. Will make use of state-of-the-art molecular genetics, including the yeast "two-hybrid" protein interaction system. Candidates with a Ph.D. in cell and molecular biology are preferred. Send curriculum vitae with a statement of research interests to: Dr. Robert Barstead, Program in Molecular and Cell Biology, Oklahoma Medical Research Foundation, 825 N.E. 13th Street, Oklahoma City, OK 73104. Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS AND GRADUATE RESEARCH ASSISTANTSHIPS**
- Available immediately. Department of Biological Sciences, Texas Tech University, Lubbock, TX 79409-3131. (Telephone: 806-742-2175/85/FAX: 806-742-2963). Send a letter stating research experience or interests, curriculum vitae, and references. Conduct drug stability, formulation and analysis of biotherapeutics. Below are specified positions.
- **Postdoctoral Position, Plant Molecular Biology** to prepare chimeric gene constructs for plant transformation (NOS, nopaline synthase, nptII). Candidates with experience in the assembly of transgenic plant systems. Familiarity with oxidative stress (Randy Allen) or carbon metabolism (Scott Holaday) preferred. Send curriculum vitae and reference letters to: Dr. Paul Coates, Program in Plant Molecular Biology, M.S./Ph.D. for: Plant Stress Physiology, specifically biochemical/molecular regulation of cotton source/sink interactions (Dr. Randy Allen) or plant oxidative stress (Randy Allen); and Fish Physiology/Molecular Biology specifically endocrine-diary interactions regulating intestinal function (membrane transport and cell physiology) and environmental control of sex determination or establishment of endogenous gene promoters supporting high-level transgenic expression (Reynaldo Patino).

**POSTDOCTORAL POSITION**
- **LIPID PROTEIN INTERACTIONS**
  - In model membranes are being studied using a stop-flow method for membrane protein transport. Experience with stop flow and fluorescence or light scattering, preparation of membrane enzymes or chemical synthesis of model membranes is strongly desired. Send curriculum vitae and names of three references to: Dr. Gary L. Powell, Professor of Biochemistry, Department of Biological Sciences, Clemson University, Clemson, SC 29634-1903; Telephone: (864) 656-2328; FAX: (803) 656-0435. Clemson University is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION**
- **TRANSPLANTATION RESEARCH**
  - Purification of Delta-1-desaturase from microsomes of developing peanut and identification of the lipid substrate specificity using a new assay are immediate goals. Molecular biological techniques will be used to evaluate the structural basis of interactions with substrates and other membrane components. This project is funded by USDA for two years at $21,500 annually. Applications are accepted until 4 January 1994. Please send curriculum vitae and names of three references to: Dr. Gary L. Powell, Professor of Biochemistry, Department of Biological Sciences, Clemson University, Clemson, SC 29634-1903; Telephone: (864) 656-2328; FAX: (803) 656-0435. Clemson University is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS IN NEUROSCIENCE**
- **THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO**
  - Available for: Plant Stress and Environmental Biosafety; and Host Pathway Interactions. Send curriculum vitae and names of three references to: Samitha Deh, Ph.D., Department of Microbiology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7785. The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION IN BIOCHEMISTRY**
- **POSTDOCTORAL POSITION IN BIOCHEMISTRY**
  - The laboratory under the direction of Glenda Bryan, Ph.D., is interested in the molecular biology of the tumor suppressor p53 and p53-inducible genes. Applications are invited from individuals with a Ph.D. in an area of interest related to p53 and its cellular functions. Send curriculum vitae and names of three references to: Dr. Gary L. Powell, Professor of Biochemistry, Department of Biological Sciences, Clemson University, Clemson, SC 29634-1903; Telephone: (864) 656-2328; FAX: (803) 656-0435. Clemson University is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION IN HARVARD MEDICAL SCHOOL**
- Immediate opening in an interdisciplinary Alzheimer's disease research program. Primary areas of focus are: (1) the protein chemical characterization of amyloid b-proteins (Ab's) from brain and from culture in cell; and (2) characterization of the relationship of pathway(s) and enzymes producing Ab's in biochemistry. Desired. Minority applicants encouraged to apply. Curriculum vitae, names of three references, a statement of interests should be sent to: Dr. David B. Teplow, Center for Neurological Diseases, Brigham & Women's Hospital, Boston, MA 02115-5817.

**POSTDOCTORAL POSITION**
- **HARVARD UNIVERSITY SCHOOL OF MEDICINE**
  - Available in fiber optic biosensor development and fluorescence spectroscopy (analyte, excitation, emission). Research includes time-resolved fluorescence in biophysics and biochemistry, and biosensor development (see Anal. Chem. 65, 730-34, and 833-36, respectively). Candidates are expected to have experience in the use of state-of-the-art fluorescence spectroscopy of biomolecules, opto-electronics, and/or optics. Please send curriculum vitae, three letters of reference, and availability for a pre-appointment meeting to Dr. Richard L. Jove, Professor of Biological Chemistry, University of Maryland School of Medicine, 108 North Greene Street, Baltimore, MD 21201. Equal Opportunity/Affirmative Action/Equal Opportunity Employer/ADA.

**POSTDOCTORAL POSITIONS**
- **DRUG METABOLISM**
  - Studies focus on drugs in humans, both in vivo and in vitro. High performance liquid chromatography and gas/solid phase techniques are used. Application in drug metabolism involves primarily the characterization of enzymes involved in their regulation, and metabolic implications. A strong chemical/biochemical background is preferred. Send inquiries to: Thomas Walle, Ph.D., Department of Pharmacology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. An Equal Opportunity/Affirmative Action Employer.

**PRECLINICAL NEUROPSYCHOPHARMACOLOGY**
- **Mayo Clinic Jacksonville, Laboratory of Neuropsychopharmacology**
  - A postdoctoral position is available to study the molecular biology and pharmacology of neurotransmitter receptors, especially those for the peptide neurotransin. Candidates should have a strong background in pharmacology or molecular biology. Applications including curriculum vitae, summary of research interests and experience, and names of three references should be forwarded to: Elliott Richelson, M.D., Director, Laboratory, Mayo Clinic Jacksonville, 4500 San Pablo Road, Jacksonville, FL 32224. An Equal Opportunity/Affirmative Action Employer. Drug-free and Smoke-free workplace.

**POSTDOCTORAL POSITIONS IN INFLAMMATORY PATHOGENESIS**
- **POSTDOCTORAL POSITIONS IN INFLAMMATORY PATHOGENESIS**
  - Available to study the molecular pathogenesis of influenza virus. The research involves elucidating the mechanism by which influenza virus interacts with the cell and/or the molecular basis of host range restriction of the virus. The candidate will receive training in state-of-the-art molecular and immunological techniques, including reverse genetics, that are being used to address these questions. Interested individuals should send curriculum vitae and names of three references to: Dr. Yoshinori Kawaoka, Department of Virology and Molecular Biology, St. Jude Children's Research Hospital, Danny Thomas, Founder, 332 N orth Lauderdale, P.O. Box 318, Memphis, TN 38101-0318. An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL FELLOWSHIP**
- **CUMULATIVE AND HENRY DREYFUS POSTDOCTORAL FELLOWSHIP**
  - Applications are invited for a postdoctoral fellowship in an active molecular biology laboratory investigating cytokine regulation of cardiac matrix remodeling and transcription/RNA control of cardiac fatty acid metabolism. Candidates must have a Ph.D. in molecular biology or related field. Position available immediately. Please send curriculum vitae and three references to: Dr. Jeff Rottman, Carnegie Institution of Washington, 12079 Medical Center Road, Woodmont Boulevard, Bethesda, MD 20892. For information, call (301) 659-5000.

**CAMELIA AND HENRY DREYFUS POSTDOCTORAL FELLOWSHIP**
- **CAMELIA AND HENRY DREYFUS POSTDOCTORAL FELLOWSHIP**
  - Available for: two-year fellowship in cardiovascular and molecular biology. Candidates with relevant experience and a Ph.D. in molecular biology are encouraged to apply. Interested individuals should send curriculum vitae and names of three references to: Dr. Mario C. Linder, Department of Chemistry and Biochemistry, California State University, Fullerton, CA 92634. An Equal Opportunity/Affirmative Action/Equal Opportunity Employer, Title IX Employer.

**RESEARCH FELLOWSHIPS IN EPIDEMIOLOGY OF LUNG DISEASES**
- **National Institutes of Health**
  - Available for: two-year program working in airways hyperreactivity and/or natural history studies on chronic lung disease along with didactic training in epidemiology leading to a Master's degree from Harvard University. Must be eligible for U.S. citizenship or permanent residence. Candidates with clinical training in Pulmonary Diseases preferred but not required. Available for U.S. citizens or permanent residence in a program in Epidemiology. Send a letter of interest, curriculum vitae, and names of three references to: Dr. Michelle Chu, Professor of Medicine, Harvard Medical School, Co-Director, Channing Laboratory, Department of Medicine, Harvard Medical School, 130 Longwood Avenue, Boston, MA 02115. This program specifically encourages applications by minority group members. The Brigham and Women's Hospital is an Equal Opportunity Employer.
The Center for Computational Sciences (CCS) at the Oak Ridge National Laboratory (ORNL), a recognized leader in multidisciplinary research and development, is seeking a Computational Scientist for the development and implementation of computational methods on massively parallel computer architectures to help solve materials/manufacturing problems of critical importance to industry. The position is part of a multidisciplinary team of national laboratory and university collaborators working on the “Grand Challenges” related to materials. Research focuses on structural mechanics, computational fluid mechanics, synthesis of engineering materials, and process control and optimization.

The successful applicant will be able to work with scientists, programmers, and vendors to create effective implementation of existing codes on state-of-the-art parallel supercomputers employing new hardware and software. Where existing codes are inadequate, the researcher will be expected to develop innovative algorithms and software tools to simulate materials/manufacturing systems. The CCS currently houses a Kendall Square Research computer and two Intel Paragons.

The position requires a PhD (or MS and equivalent combination of education and experience) in a quantitative science (computer science, math, engineering, physics, or materials science). Application programming experience on massively parallel processors and FORTRAN programming proficiency are required. Familiarity with C and UNIX or OSF/1 based computers is desired, along with experience in development and use of visualization software and spatial analysis.

Demonstrated interpersonal skills, oral and written communication skills and strong personal motivation are essential.

ORNL is a multi-purpose research facility managed by Martin Marietta Energy Systems for the U.S. Department of Energy. ORNL offers a competitive compensation and benefits package, including relocation. For immediate consideration, send your resume to: J.K. Johnson, Oak Ridge National Laboratory, Dept. SCI-2, P.O. Box 2008, Oak Ridge, TN 37831-6216.

ORNL is an equal opportunity employer committed to building and maintaining a diverse workforce.
CHAIR OF MICROBIOLOGY
Faculty of Science

Applications are invited for appointment to a non-clinical Chair, one of the two Chairs in the Department of Microbiology. The Department is located in the Medical Sciences Building where it occupies modern, well equipped laboratories on two floors. It has a number of active research groups in the area of microbial pathogenicity including virology and immunology, with complementary clinical interests in infectious diseases. There are other well-developed research interests in microbial systematics and environmental microbiology.

The successful applicant would be expected to provide academic leadership in research and to establish a major research group in an area of molecular microbiology of relevance to pathogenicity.

Teaching programmes reflect membership of both the Faculty of Medicine and the Faculty of Science. There are major teaching commitments to a range of BSc Honours courses in Biological Sciences, including a BSc Hons Microbiology option, as well as to both pre-clinical and clinical components of the MB ChB degree.

Salary will be on the non-clinical professorial scale depending on the qualifications and experience of the successful candidate.

Prospective applicants who wish to discuss the appointment informally should contact the Head of Department, Dr. W. D. Grant, telephone (0533) 522950 and/or the Biological Sciences Budget Centre Manager, Professor W. Brammar, telephone (0533) 523441.

Further particulars may be obtained from the Staffing Office (Academic Appointments), University of Leicester, University Road, Leicester LE1 7RH, telephone (0533) 522422, Fax number (0533) 522200. U.K. candidates should submit twelve copies of their application (overseas candidates may submit one copy).

Closing date for applications is 7 January 1994.

Towards equal opportunities

University of California, Davis

The Department of Human Physiology seeks an outstanding individual for tenure track Assistant Professor position. Must have doctoral degree, post-doctoral experience and be establishing independent research program, capable of attracting extramural support, involving the application of molecular biology tools to investigations of the transport function of endothelial barriers in the microcirculation. The Department has been targeted to develop research strength in microvascular physiology. Collaboration with other investigators to apply molecular tools and approaches to studies of cardiovascular function is expected. Candidates must contribute to Departmental teaching. For further information call Dr. F.E. Curry, Chair, (916) 7521973. Applicants should send C.V., research plans, and names of five references to Dr. Peter Cala, Chair, Search Committee, Department of Human Physiology, School of Medicine, University of California, Davis, CA 95616. Salary is negotiable. Applications deadline is January 31, 1994. Start date is July 1, 1994.

The University of California, Davis is an equal opportunity/affirmative action employer. Minority and female applicants are encouraged to apply.
Recent advances in genetics have increased our understanding of the molecular basis of susceptibility to carcinogenesis in animals and humans. This information has impacted our ability to recognize subpopulations which are at increased risk for cancer development from the general human population exposed occupationally and environmentally to carcinogens. Both intrinsic genetic factors and extrinsic modifiers of human cancer risk are now being identified which will impact risk assessment in the future. In addition, the availability of genetically modified animal models in which susceptibility to tumor development can be modulated under a variety of experimental conditions raise new questions that must be addressed regarding the extrapolation of cancer bioassay data generated in these models to human risk assessment. The goal of this conference will be to provide a deeper understanding of genetic factors that influence cancer susceptibility and the role of these factors as determinants of human cancer risk. Sessions will focus on susceptibility factors that are the targets of chemical carcinogens, intrinsic factors that modify cancer risk and biomonitoring and extrinsic risk modification. This conference is the eighth international meeting in a series covering research and contemporary issues on carcinogenesis and risk assessment.

November 30 - December 3, 1994
Barton Creek Conference Resort
Austin, Texas

For additional information as it becomes available, send name and address to:
Genetics and Susceptibility Conference
P.O. Box 389
Smithville, Texas 78957
Telephone: 512-237-2403
Fax: 512-237-2522

THE 3rd SIGMA-TAU FOUNDATION
ALZHEIMER JOURNALISM FELLOWSHIP

For journalistic excellence in reporting aspects of Alzheimer's disease

These Fellowships recognize journalists who have published or produced outstanding work communicating the scientific, medical, or psychological aspects of Alzheimer's disease to the public.

Fellowships will be awarded in three categories: consumer print media, radio/television, and trade or science publications.

THE FELLOWSHIPS

Awardedists will receive a travel/lodging one-week fellowship to the Italian Spoleto Festival of Culture and Science in July 1994. In addition to attending the Festival, meetings will be arranged with members of the Italian science media.

All entries must have been published or broadcast between January 16, 1992 and January 15, 1994. Deadline for receipt of entries is February 4, 1994.

Entries will be judged by a panel of medical writers and scientists, including representatives of The Alzheimer's Association and The French Foundation for Alzheimer Research.

For an entry form, write:
The Sigma-Tau Foundation
Attn: Award Chairperson
P.O. Box 3179
Gaithersburg, MD 20885-3179
or call 1-800-447-0169

UNIVERSITY OF LAPLAND
ARCTIC CENTRE

The Arctic Centre is a separate Institute affiliated with the University of Lapland in Rovaniemi, Finland. The research department of the Arctic Centre strives to assess the effects rather than causes of global changes and anthropogenic influences on Arctic nature and Arctic societies.

The Arctic Centre invites applications for the post of:

DIRECTOR OF RESEARCH

to act as Head of the Centre's research department. The applicant should be an acknowledged natural or social scientist with substantial post-doctoral experiences in Arctic research.

Key responsibilities of the Director of Research include shaping the research profile of the Centre, coordination of research projects, soliciting research funds, developing exchange and cooperation with partner institutions, and the overall administration of the research department.

The position is open for an initial period of three years. The salary ranges from FIM 11,634 to FIM 18,566, depending on qualifications. Applications in English, including a CV, a description of previous work, an outline of prospective activities at the Centre, and three references, should be sent to the University of Lapland, P.O. Box 122, FIN-96101 ROVANIEMI, FINLAND, by December 30, 1993. Inquiries: Arctic Centre, tel. +358 60 324773, fax. +358 60 324760.

UNIVERSITY COLLEGE DUBLIN
DEPARTMENT OF ZOOLOGY

One Permanent Post
(Ref: 110/93). Closing Date: Thursday, 20 January 1994

Applications are invited for a full-time permanent academic post, commencing in Spring 1994. Preference will be given to candidates who have a relevant Ph.D. degree, post-doctoral and/or teaching experience and who are committed to productive research and excellence in teaching. Research experience in Marine Ecology and Developmental Biology would be an advantage, but applications from scientists working in other areas relevant to the research in the Department will also be considered. Applications from young researchers will be welcomed. The appointment will be made at the level of Assistant Lecturer or College Lecturer.

The current salary scales are:

Assistant Lecturer: IRA13,108 - IRA20,947
College Lecturer: IRA20,245 - IRA23,607

Entry point on the relevant scale will be in accordance with qualifications and experience.

Prior to application, further information (including application procedure) should be obtained from The Personnel Office, University College Dublin, Belfield, Dublin 4, Ireland, (quoting above reference number). Telephone enquiries: (353 1) 7061436 and (353 1) 7061508 - direct lines. Fax: (353 1) 2692472.

UCD IS AN EQUAL OPPORTUNITIES EMPLOYER
A significant worldwide responsibility...

Veterinary Resources Director

Substantial salary package  US/Europe Base

My client is a $4+ billion turnover, research-driven pharmaceutical company with R&D facilities on four sites in the USA and Europe. They are currently globalising many of their functions which operate at top international standards.

The Veterinary Resources Director is responsible for providing professional LA services to all the biological functions in the corporation. Responsible for 115 people, you will also provide the strategy on LA issues and facilities, ensuring your group’s contribution to the success of the business.

Qualified at DVM/VMD level, you should have speciality post-graduate LAM training and ACLAM Board Certification. With 8 to 10 years LA management experience in the pharmaceutical industry, you can handle people issues and have a professional interest in LA science.

You will have the tact and personal skills to manage professional scientists and technologists, and relate to a variety of specialist managers in a range of cultures and environments.

The role can be based in the USA or Europe with local terms and conditions applying, together with a generous relocation package. The job requires regular travel to visit all sites and, in Europe, they are situated in major cities which are cultural centres.

This position offers a substantial career step in a dynamic, major league organisation. Ring me today for further information on this important opportunity. Alternatively, send or fax your CV, quoting Ref AS/825/IC, to Dr Ian Collins, Managing Director, Executive Scientist Appointments Ltd, 15-17 The Broadway, Old Hatfield, Hertfordshire, AL9 5HZ, UK. Tel: +44 707 264311 Fax: +44 707

A Salisbury Consulting Group Company

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BIOLOGY OF DISEASE VECTORS
17–30 July 1994

INSECT MOLECULAR GENETICS GROUP
I.M.B.B.-F.O.R.T.H.
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The course is designed for advanced graduate students, post-doctoral fellows, and independent investigators. The lecture course will be given at the Orthodox Academy of Crete (Colymban) and the experimental work will be carried out in the laboratories of the Insect Molecular Genetics Group at the IMBB, Heraklion, Crete.

Limited to approximately 30 students. Enrolment is competitive. Financial aid (based on need) will be available. Application deadline is February 28, 1994. For information and application forms, contact:

Dr. Alan S. Robinson  OR  
Insect Molecular Genetics Group,
I.M.B.B.-F.O.R.T.H.
P.O. Box 1527,
Heraklion 711 10, Crete,
GREECE
(Tel. xx30-81-210362,
Fax. xx30-81-231308)

Dr. Laurence J. Zwiebel
Department of Cellular &
Developmental Biology
Harvard University
16 Divinity Avenue
Cambridge, MA 02138,
USA
(Tel. xx1-617-495-3292
Fax. xx1-617-495-4312)

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University of Heidelberg

THE FACULTY OF THEORETICAL MEDICINE, UNIVERSITY OF HEIDELBERG, invites applications for the position of:

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Prof. Dr. N. Victor
Dean, Faculty of Theoretical Medicine
University of Heidelberg
Im Neuenheimer Feld 346
69120 Heidelberg
Germany

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The National Parkinson Foundation of Miami, Florida, invites the submission of grant proposals for Parkinson research. Funding is made available to support basic bench research in Parkinson's disease. The award for a single grant will not exceed $40,000. None of the monies are to be utilized for administrative overhead or travel expenses. The application deadline is February 1, 1994. Funding will commence on June 1, 1994. It is required that proposed studies specifically focus on mechanisms involved in the disease process and that they have the potential of finding the cause and prevention of Parkinson's disease. Scientists entering the field of Parkinson research are encouraged to apply. Proposals will be assessed by the National Parkinson Foundation Scientific Advisory Board. To obtain submission information please write to:
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