maximum recovery method. The 5-min method is a fast, one-step procedure involving a 5-min spin at 5000g. The only equipment required is a variable-speed microcentrifuge. The method is best for recovery of small fragments (<2.0 kbp). The maximum recovery method involves freezing, thawing, and maceration of the gel slice combined with a single spin, which gives a greater recovery of both small and large DNA fragments. Millipore. Circle 144.

Cloning Software
Vector NTI is knowledge-based software designed to automate many cloning applications. It is capable of designing new genetic molecules automatically, making use of the user's specifications for the desired molecule. The software contains more than 3000 rules for genetic engineering designing. The new version includes a database of 80 commonly used vectors and permits transferring changes to molecules in child-parent trees and visualization of those changes. Additional features include a more powerful sequencer and the ability to choose any number of best options for new molecule design.

All molecules can be analyzed to identify sequences for polymerase chain reaction primers, restriction sites, open reading frames, and sequence motifs. Versions are available for Windows and Macintosh systems. InforMax and American Type Culture Collection. Circle 145.

Literature

1995 Product Catalog of Microbiology contains more than 2300 product descriptions, including dehydrated culture media for molecular genetics, a blood culturing system, and a system for mycobacterial growth and detection. Difco Laboratories. Circle 147.

Maintain Sample Integrity with Hamilton's SampleLock Syringes describes the use and applications of these products, including sample collection and storage, sample prepurification, sample spiking, and purge and trap sample loading. Hamilton. Circle 148.

Gibco BRL Baculovirus Expression Products details the features and advantages of this line. Life Technologies. Circle 149.

Viable Colostrum Based Medium Supplement is an eight-page brochure on an alternative to fetal bovine serum with advantages that include low bovine protein content, minimal variation between batches, low endotoxin content, no harmful viruses, low viscosity, and low fat content. Accurate Chemical and Scientific. Circle 150.
Ethical and Legal Issues in Pedigree Research

Editors: Mark S. Frankel and Albert H. Teich
AAAS Directorate for Science and Policy Programs

Studies using family pedigrees have played a key role in determining how genetic disorders are inherited and in locating the genes associated with these disorders. Such studies raise ethical and legal issues that have yet to be thoroughly aired. This volume reports on an invitational conference at which the participants, including researchers studying five different genetic disorders, discussed how their research groups and others are handling such issues as informed consent, subject recruitment and withdrawal, privacy and the control of genetic information, children as research subjects, the role of researchers and the provision of clinical care, and publication practices.

To order please send $10.00 plus $2.00 for shipping and handling to:
AAAS (Attn. Kamla Butaney)
Directorate for Science and Policy
1333 H Street, NW
Washington, DC 20005.
California and DC residents add sales tax; Canadian residents add 7% GST; and foreign mail add 25% of total.

ASSISTANT PROFESSORS OF ZOOLOGY

The University of Idaho’s Department of Biological Sciences invites applications for two TENURE-TRACK POSITIONS from candidates with a Ph.D. and postdoctoral experience. The specific areas of research openings are anticipated to be:

1. Mammalogist/Omnivore
2. Fish Biologist
3. Invertebrate Zoologist

Applicants are expected to operate at the assistant professor level. Successful candidates will be expected to have a keen interest in undergraduate instruction, to establish extramurally funded research programs and obtain extramural funding, to graduate, master’s, and doctoral levels. Applications will be reviewed if received by October 20, 1995. Applicants should send a statement of research goals, teaching philosophy, curriculum vitae and the names and telephone numbers of three references to: Julie Monroe, Secretary to the Search Committee, Department of Biological Sciences, University of Idaho, Moscow, ID 83844-3051. Email: jmonroe@aspen.crv.uidaho.edu

http://www.uidaho.edu/Letters_and_Science/BioSci/. To reach educational through diversity, the University of Idaho is an Equal Opportunity/Affirmative Action Employer.

BIOLOGY FACULTY POSITION
ASSISTANT PROFESSOR

King’s College, Wilkes-Barre, PA, has a tenure-track opening as an ASSISTANT PROFESSOR in Biology beginning with the Fall 1996 semester. An animal biologist is sought. The successful applicant will hold the Ph.D. in Biological Science and is expected to teach under-graduate and graduate courses, to advise and mentor undergraduate, as well as some area of neuroscience in the Biopsychology Program, and to supervise an active undergraduate research program. Preliminary graduate-level research experience is desirable. This position requires a primary interest and commitment to quality undergraduate instruction. The Biology Department, housed in the new Parent Life Sciences Center with modern teaching and research laboratories and equipment, has an active Molecular Biology Program, is part of a Biotechnology Group in association with others in the College, has a growing Biopsychology Program, and a developing Environmental Science Program.

A letter of application, indicating teaching and research interests, a curriculum vitae, academic transcripts, and three letters of professional reference should be submitted by candidates to: William A. Shergalis, Ph.D., Dean of Arts and Sciences, King’s College, Wilkes-Barre, PA 18711 by November 3, 1995, when the initial screening of applications will begin. The process will continue until the position is filled. All applications are encouraged by Congregation Holy Cross, is an Equal Opportunity Employer.

ASSOCIATE/FULL PROFESSOR
Biochemistry/Molecular Biology/Cancer Research

The Department of Biochemistry and Molecular Biology and the Stanley S. Scott Cancer Center are seeking a candidate at a SENIOR LEVEL for a tenure-track position. Any relevant area of biochemical and molecular research is acceptable. The candidate is expected to bring along a currently active research program in his/her area of expertise. Previous evidence of translational research experience is expected. Previous evidence of teaching experience is desired. Applicants are encouraged to participate in the undergraduate teaching program. The successful candidate will teach in the Department of Molecular Biology. Space, transition funds, salary, and fringe benefits present an extremely attractive package. Applicants should send a curriculum vitae, a brief description of future research plans and three letters of recommendation to: Wayne V. Vedeckis, Ph.D., Search Committee Chairperson, Department of Biochemistry and Molecular Biology, Louisiana State University, Baton Rouge, LA 70803. Deadline is November 1, 1995. LSU Medical Center is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR
Behavioral Neuroscience

The Neuroscience Program and the Psychology Department of La Salle University has a position open for the fall of 1996. The position involves teaching and research in the area of neuroscience with an emphasis on behavior or function. Send curriculum vitae, a one-page research description, and three letters of recommendation to: Chair, Neuroscience Search Committee, Code B, Department of Psychology, Prince- ton Hall, La Salle University, 1901 63rd Street, Philadelphia, PA 19144-3587. Deadline is November 1, 1995. Princeton University is an Equal Opportunity/Affirmative Action Employer.
**ASSISTANT PROFESSOR OF BIOCHEMISTRY**

Applications are invited for a tenure-track faculty position at the ASSISTANT PROFESSOR level in the Department of Chemistry and Biochemistry at Utah State University. The successful applicant will actively participate in the Ph.D. degree program in biochemistry and will be expected to develop a research program that complements our existing faculty interests. Applicants working on topics related to enzyme mechanisms, macromolecular structure with respect to function and function with respect to molecular structure may be encouraged to apply. Teaching responsibilities will include undergraduate and graduate biochemistry and general chemistry courses. A Ph.D. degree and postdoctoral experience are required. A curriculum vitae, outline of planned research, statement of teaching philosophy and three letters of recommendation should be sent to: Biochemistry Search Committee, Department of Chemistry and Biochemistry, Utah State University, Logan, UT 84322-3000. Review of completed applications will begin 1 December 1995 and will continue until the position is filled. Logan is located in the scenic Cache Valley, which offers rural and small city living adjacent to wilderness areas. Utah State University is an Equal Opportunity/Affirmative Action Employer, and applications from women and minorities are encouraged.

**ECOLOGIST, BRYN MAWR COLLEGE**

The Department of Biology invites applications for a tenured-track position at the ASSISTANT PROFESSOR level in Ecology beginning September 1996. Teaching responsibilities will include an introductory ecology course and an advanced field course in an area of the candidate's interest, involvement in the team-taught introductory biology course, and participation in a new interdisciplinary introduction to environmental science course. Opportunities are also available for participation in an existing interdepartmental program in Neural and Behavioral Sciences. Development of an active research program involving undergraduates and graduate students is expected. A doctorate and at least one year of postdoctoral research experience are required. Send curriculum vitae, statement of research and teaching interests, sample publications, and names and addresses of three references by November 15, 1995 to: Dr. Karen Greif, Chair, Department of Biology, Bryn Mawr College, 101 North Merion Avenue, Bryn Mawr, PA 19010-2899. Bryn Mawr College is an Equal Opportunity/Affirmative Action Employer. The College particularly wishes to encourage applications from individuals interested in joining a multicultural and international academic community. Minority candidates and women are especially encouraged to apply.

**DEVELOPMENTAL BIOLOGIST**

Department of Biological Sciences

Stanford University

We invite applications for a tenure-track position at the ASSISTANT PROFESSOR level from candidates interested in teaching and development of Department of Biology’s upper-division Electives. Please submit a curriculum vitae; FAX number; Email address; description of current and future research interests; and statement of teaching experience and interests to: Professor Virginia Walbot, Department of Biological Sciences, Stanford University, Stanford CA 94305-5009. (Deadline is 1 December 1995. Please provide the names, addresses, Email, FAX and telephone numbers of three referees). Applications from women and members of minority groups are especially encouraged.

**WILDLIFE ECOLOGIST**

ASSISTANT PROFESSOR

Wildlife Ecology: ASSISTANT PROFESSOR in Wildlife Ecology. Applications are invited for a position available January 1996 in the Department of Range, Wildlife, and Fisheries Management. Summer salary normally available through teaching and research funding. The position is 50% teaching and 50% research, with a teaching load of three courses per academic year. The applicant should have a Ph.D. in Wildlife Science or closely related area, with experience in upland game management and nongame bird ecology. Preference will be given to candidates with excellent teaching and research records. Applications are invited from women and minority candidates. The University is an equal opportunity/affirmative action/ equal access employer and encourages applications from minority and women candidates. Salary is competitive. Send a letter of application, curriculum vitae, statements of research and teaching interests, and three letters of recommendation to: Dr. Loren M. Smith, Chairman of the Search Committee, Department of Range, Wildlife, and Fisheries Management, Texas Tech University, Lubbock, TX 79409-2125. Telephone: 806-742-2842; FAX: 806-742-2280; Email: C7LMS@TTACSI.TTU.EDU. Texas Tech is an Affirmative Action/Equal Opportunity Employer.

**HARVARD UNIVERSITY**

ASSISTANT PROFESSOR

Molecular and Cellular Biology (MCB)

The Department of Molecular and Cellular Biology intends to make an ASSISTANT PROFESSOR appointment (entry level) available starting September 1996. Our program covers a broad range of topics in molecular biology, cellular biology, developmental biology, structural biology, and molecular genetics. We are seeking outstanding candidates. Applications should include a curriculum vitae, reprints of publications, and a statement of present and future research plans (one to three pages). Complete applications and three letters of recommendation, solicited by the applicant, should be received no later than October 1, 1995, by: MCB Search Committee, Harvard University, 7 Divinity Avenue, Cambridge, MA 02138. Telephone: 617-495-2327. Harvard University is an Affirmative Action/Equal Opportunity Employer. We strongly encourage applications from women and minority groups.

**BIOLOGY CHAIR**

University of Central Arkansas

Search Reopened

The University of Central Arkansas invites applications and nominations for the position of Chair of the Department of Biology. The rapidly growing department has 20 faculty, over 400 undergraduate majors and 15 graduate (M.S.) students, a record of excellence in undergraduate education, and an expanding commitment to research. Outstanding candidates with a strong commitment to teaching and scholarship are encouraged to apply.

The University of Central Arkansas is a state-supported institution with an enrollment of 9,200 students. Conway, a picturesque city, is located 30 miles north of Little Rock and within 40 miles of the Ozark and Ouachita National Forests. Conway has three colleges and an excellent public school system.

The successful candidate will have demonstrated achievements in undergraduate education, basic biological research, and administration. Letter of application and current resume, including statements of scholarly interests and philosophies of education and administration, should be sent with names, addresses, and phone numbers of three references to: Biology Chair Search Committee, College of Natural Sciences and Mathematics, Lewis Science Center 105, University of Central Arkansas, Conway, AR 72035. Review of materials will begin on 15 October 1995 and continue until the position is filled.

UCA is an Equal Opportunity/Affirmative Action Employer.

**CHAIR**

Institute and Department of Physiology

School of Life Science

National Yang Ming University, Taiwan

Applications are invited for the CHAIR in the Institute and Department of Physiology, a newly recognized major in Taiwan. This internationally recognized scholar in Physiology with an outstanding record of research accomplishment. Other qualifications include a Ph.D. in Physiology or a related field and an interest and talent for teaching. Curriculum vitae, references, and a summary of research interests should be sent to: Professor H. Y. H. Yang, School of Life Science, National Yang Ming University, Shih-Pai, Taipei, Taiwan. The position is immediate availability. Applications must be postmarked by 31 October 1995.
Tenure-Track and Postdoctoral Opportunities.

The following research training opportunities are currently available at the National Institutes of Health.

--- Tenure-Track Position ---

**Assistant Professor Equivalent**

**Molecular Genetics**

Joan C. Marini, MD, PhD

A position is available to develop an independent research program investigating heritable human disorders. Area of investigation should complement those of current staff and might include trinucleotide repeats, approaches to gene therapy, disorders of growth factors and their receptors. The candidate must have an active interest in clinical as well as basic research. Genetics Board certification preferred. Submit a two-page statement of research interests and goals in addition to three letters of recommendation by November 1, 1995. Heritable Disorders Branch (OE-96), NICHD, Building 10, Room 9S241, 10 CENTER DR MSC 1830, BETHESDA MD 20892-1830, Fax 301-402-0234.

--- Postdoctoral Positions ---

**Molecular Endocrinology**

Sheue-yann Cheng, PhD

The effects of thyroid hormones on the growth and development of tumors are being studied with particular emphasis on the interaction of thyroid hormone receptors with tumor suppressors. A strong background in cell biology, biochemistry and molecular biology is preferred. Candidates should have less than five years of postdoctoral experience, and preferably be a US citizen or permanent resident. Laboratory of Molecular Biology (OE-96), NCI, Building 37, Room 2D24, 37 CONVENT DR MSC 4255, BETHESDA MD 20892-4255.

**Molecular Study of Synapse Development**

Bai Lu, PhD

Molecular mechanisms underlying synaptogenesis are under investigation. Projects include cloning of molecules involved in synapse development and plasticity, and characterization of gene expression and signal transduction events associated with specific stages of synaptogenesis. Experience in basic biochemistry and molecular biology are required. Particularly desirable are techniques to handle small quantities of mRNAs and proteins (RT-PCR, HPLC). Laboratory of Developmental Neurobiology (OE-96), NICHD, Building 49, Room 5A38, 49 CONVENT DR MSC 4480, BETHESDA MD 20892-4480.

**Neurological Diseases**

Eugene O. Major, PhD

Neurologic diseases at the clinical, biological and molecular levels, emphasizing pathogenesis involving neurotropic viruses, toxic cytokines, or possible genetic alternations are being studied. Investigations of white matter diseases provide the principal focus which includes Progressive Multifocal Leukoencephalopathy (PML), caused by the human polyomavirus, JCV and AIDS associated encephalopathy involving HIV-1 damage to the brain. Experiments detail the molecular mechanism cell type recognition of viral sequences. Laboratory of Molecular Medicine and Neuroscience (OE-96), NINDS, Building 36, Room 5W21, 36 CONVENT DR MSC 4164, BETHESDA MD 20892-4164.

**Nuclear Hormone Receptor Action**

Keiko Ozato, PhD

The mechanism of nuclear hormone receptor action is being studied. The current focus is to analyze the interaction between RXR and the basal transcription machinery and other nuclear regulatory proteins. To this end, *in vitro* transcription assays using recombinant receptors are employed. Genomic *in vivo* footprinting is performed for mammalian cells following gene transfer/disruption. Candidates should have less than five years of postdoctoral experience, and preferably be a US citizen or permanent resident. Laboratory of Molecular Growth Regulation (OE-96), NICHD, Building 6, Room 2A01, 6 CENTER DR MSC 6753, BETHESDA MD 20892-6753.

**Physiological Study of Synapse Development**

Bai Lu, PhD

A position is available to study molecules regulating synapse development and plasticity. Ongoing projects include: 1) role of neurotrophins in synapse development and function; 2) characterization of new molecules involved in specific stages of synaptogenesis. Close interaction between the electrophysiologists and molecular biologists exists in the laboratory. Experience in electrophysiology is required. A background in Ca"" imaging is highly desirable. Laboratory of Developmental Neurobiology (OE-96), NICHD, Building 49, Room 5A38, CONVENT DR MSC 4480, BETHESDA MD 20892-4480.

**Additional Opportunities**

The NIH/NIDDK Bulletin Board POSTDOC (fellowship positions) and TENURE (tenure track positions) conferences are accessed via a modem (301-402-2221 or 800-358-2221 with parameters set at 7,Even,1) or the Internet using Telnet (uylibrur.cu.nih.gov) or the World Wide Web (URL: telnet://uylibrur.cu.nih.gov). When connected to NIH, key in net100 for terminal emulation, FSE for initials, and AJLI for account number. To view tenure track positions, quit the POSTDOC conference and join the TENURE conference.

An electronic version of the Postdoctoral Research Fellows Opportunities catalog is accessed via the Internet using either the Gopher Information System (gopher.nih.gov) or the World Wide Web (URL: http://www.nih.gov). When connected with Gopher, select Grants and Research Information and then NIH Office of Education. When connected with WWW, select Grants and Contracts and then NIH Office of Education. If you have further questions, please contact the NIH Office of Education, Building 10, Room IC129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, Phone 301-496-2427, Fax 301-402-0483.

**To Apply**

If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (MD, DO, DDS, DMD or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, curriculum vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
A tenure-track ASSISTANT/ASSOCIATE PROFESSOR in Molecular "excitable cell" physiology is sought at Johns Hopkins University. Applicants must have a Ph.D. in molecular biology and postdoctoral research experience in molecular genetics. Applicants should send curriculum vitae, letters of reference, and a statement of research interests. The department is committed to diversity and encourages applications from women, minorities, and individuals with disabilities. Applications will be reviewed beginning January 2, 1996.

The department of Molecular Biology of Reproduction and Hormone Action at Baylor College of Medicine is seeking a candidate for a tenure-track position in Molecular Biology. The position is available for study in the areas of reproductive biology, with an emphasis on the molecular biology of cellular processes. Applicants should have a Ph.D. in molecular biology and postdoctoral experience in genetics, biochemistry, or cell biology. The department is committed to diversity and encourages applications from women, minorities, and individuals with disabilities. Applications will be reviewed beginning January 2, 1996.

The Department of Biochemistry and Molecular Biology at Carleton College is seeking a candidate for a tenure-track position in Biochemistry/Molecular Biology/Cancer Research. Applicants should have a Ph.D. in biochemistry, molecular biology, or a related field. The department is committed to diversity and encourages applications from women, minorities, and individuals with disabilities. Applications will be reviewed beginning October 6, 1995.
SCIENTISTS

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The fulfillment of seeing your ideas happen. At Schering-Plough, we invest over $620 million annually to advance the process of discovery and development. To the dedicated scientist, this means a greater opportunity to see your work extend and enhance lives the world over.

CNS RESEARCH
We have excellent opportunities for talented scientists at all levels who are interested in joining an expanding multidisciplinary group focusing on molecular targets for CNS disorders. Experience working with receptors, transporters, G proteins or other signal transduction systems is highly desirable. Background in molecular biology, molecular pharmacology or biochemistry is required; experience with obesity, Alzheimer's disease or schizophrenia is desirable.

RESEARCH FELLOW
Requires a PhD and 8-12 years of postdoctoral experience, along with clear evidence of scientific leadership and management skills. Strong interpersonal skills and scientific reputation a must. The successful candidate will conceive, propose and design innovative research projects as well as provide in-depth scientific knowledge and advice to Research staff and management in area of scientific specialty.

SENIOR/PRINCIPAL SCIENTIST
Requires a PhD and 2-7 years of postdoctoral experience demonstrating strong research background plus ability to initiate and direct an independent research program in the CNS area.

ASSOCIATE SCIENTIST
Requires a BS/MS with laboratory experience plus strong technical and interpersonal skills in a research setting. As a member of our CNS research team, the successful candidate will be responsible for performing experiments in a variety of CNS areas.

POSTDOCTORAL FELLOW
Requires a PhD and strong research background to work on signal transduction research in the CNS area. Excellent communication and interpersonal skills a must.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume indicating your position of interest and salary requirements to: Human Resources-KB, Dept. CS, K-15-1, MS#1255, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.

Schering-Plough Research Institute

Using Science For Human Advantage
INVERTEBRATE ECOLOGIST

The Department of Biology at The University of New Mexico (UNM) is seeking applicants who do research in any area of Invertebrate Biology for a full-time, tenure-track position as ASSISTANT PROFESSOR, to begin August 19, 1996. Minimum requirement: Ph.D. in related field. Preferred characteristics: Post-doctoral experience; an innovative and conceptually based Ph.D. dissertation as reflected in publications and other scholarly activities; and a commitment to excellent teaching at the beginning undergraduate through graduate levels. The successful applicant will be expected to establish an extramurally-funded research program, and to participate in departmental service activities. Send a letter of application, curriculum vitae, and three letters of reference to:

Chair, Invertebrate Ecologist Search Committee
Department of Biology
The University of New Mexico
Albuquerque, NM 87131-1900
Telephone: 505-277-3411; FAX: 505-277-0304

Complete applications must be received by October 16, 1995.

UNM is an Equal Opportunity/Affirmative Action Employer and Educator.

RESEARCH ASSISTANT PROFESSOR

The Division of Renal Diseases and Hypertension, Department of Medicine, University of Colorado School of Medicine, is seeking a faculty member at the ASSISTANT PROFESSOR level. The position is 100% research with a Ph.D. or M.D. degree, at least some years of postdoctoral training in Biochemistry or Cell/Molecular Biology, and a credible publication record. The successful candidate will be expected to collaborate with established faculty members who are conducting research in the areas of protein kinases, glomerular basement membrane disease, renal tubular acidosis, and hypertension. Interested applicants should send a letter of application, curriculum vitae, and three letters of reference to:

Robert W. Schrier, M.D., Chairman of Medicine
University of Colorado Health Sciences Center
Box C281, 4200 East 9th Avenue, Denver, CO 80262.

The University of Colorado is committed to Equal Employment Opportunity and Affirmative Action.

PLANT PHYSIOLOGICAL ECOLOGIST

The Department of Biological Sciences at Texas Tech University invites applications for a tenure-track position at the ASSISTANT PROFESSOR level, to begin in August 1996. Applicants should have a Ph.D. in Botany, Ecology, or a closely related discipline. Preference will be given to candidates who have some experience or training in molecular approaches to physiological questions. The successful candidate will be expected to establish a leaf-wetted program utilizing physiological methods, molecular techniques, and field methods. The research program will be expected to involve students in research in both the laboratory and field. Interested candidates should send a letter of application, curriculum vitae, and three letters of reference to:

Dr. L. A. Schuster, Chairman
Department of Biological Sciences
Texas Tech University
Lubbock, TX 79409-3131.

TX Tech University/Affirmative Action/Equal Employment Oppor-

UNITED STATES NAVY SUBMARINE COMMAND

BIOCHEMISTRY FACULTY POSITION

University of Wisconsin-Madison

The Department of Biochemistry at the University of Wisconsin-Madison invites applications for a TENURE-TRACK FACULTY POSITION at the ASSISTANT PROFESSOR level. The successful candidate will be expected to establish a research program that focuses on the mechanism of regulating transcription factors. The successful candidate is expected to have a Ph.D. degree in molecular biology or a related field. Applicants should have a strong commitment to teaching and to achieving extramural funding. Interested candidates should submit a letter of application, a curriculum vitae, and three letters of reference to:

Professor H. C. DeLuca, Chairman
Department of Biochemistry
210 High Hall, Madison, WI 53706-0160.

Additional applications will be accepted until the position is filled.

APPLICATION DEADLINE:

January 15, 1996.

DAVIS SCIENCES

ST. CLAIR DRAKE INITIATIVE

ROOSEVELT UNIVERSITY

This 12-month, tenure-track position is immediately available. The ideal candidate will have demonstrated excellence in teaching and scholarship. Applicants should have a Ph.D. degree in any scientific discipline, including, but not limited to, biology, chemistry, physics, geology, and environmental science. Applicants should have a strong teaching record, and a commitment to diversity in the classroom. A strong research record will also be considered. The ideal candidate will be an excellent teacher, with a strong commitment to student learning and to undergraduate education. Interested candidates should send a letter of application, a curriculum vitae, and three letters of reference to:

Chair, St. Clair Drake Initiative
Roosevelt University
130 S. Michigan Ave.
Chicago, IL 60604.
The Office of Therapeutics Research and Review is recruiting for a physician to serve as the Director for the Division of Clinical Trial Design and Analysis. The Director is responsible for managing a multidisciplinary medical, scientific and administrative staff of approximately 45 people engaged in the following: Evaluation of the safety and efficacy of biological therapeutic products based upon data from clinical and pre-clinical trials, evaluation of the design adequacy of proposed trials, and development of policy and of a research program related to clinical trial design and analysis.

QUALIFICATIONS: Applicants must have a Doctor of Medicine or Doctor of Osteopathy degree from an accredited institution. Graduates of foreign medical schools must submit a copy of their permanent Education Commission for Foreign Medical Graduates (ECFMG) certification. Applicants should possess the ability to evaluate the design and the results of clinical trials and pre-clinical studies of biologics; demonstrate leadership and managerial ability in directing complex medical/scientific programs; and possess ability to deal effectively with high-level government and pharmaceutical industry officials, representatives of the scientific and academic communities, and national and international health organizations.

SALARY RANGE: Salary range for civil service positions at the GS-15 level is $72,471 to $93,166 per annum if determined by peer review board. Physicians may also be eligible for EITHER a Physicians Comparability Allowance of $4,000 to $20,000 per annum, OR Physician Special Pay up to $148,400 based on experience, qualifications, and medical specialty.

HOW TO APPLY: For additional information about the position and instructions on how to apply, call Ms. Lucero at (301) 443-6142. Applications must be received or postmarked by October 27, 1995.

The Office of Vaccines Research and Review is recruiting a physician or scientist to serve as Deputy Director of the Division of Bacterial Products. The Deputy Director will assist the Division Director in supervising the activities of the Division, which are to conduct scientific research related to the microbiology, pathogenesis, and immunology of bacterial diseases, and to review INDs and Product License Applications for bacterial vaccines and related products.

QUALIFICATIONS: Physicians - Applicants must have a Doctor of Medicine or Doctor of Osteopathy degree from an accredited institution and additional clinical and/or research training. Graduates of foreign medical schools must submit a copy of their permanent Education Commission for Foreign Medical Graduates (ECFMG) certificates.

Scientists- Applicants must have an advanced degree in microbiology, immunology or related field and additional research training.

Applicants must be able to evaluate the safety, efficacy and public-health significance of bacterial vaccines and related products, demonstrate leadership and managerial ability, and deal effectively with government and pharmaceutical officials, representatives of the scientific and academic communities, and national and international health organizations. Relevant laboratory research by the Deputy Director is encouraged.

SALARY RANGE: For physicians: Salary range for Civil Service positions at the GS-14/GS-15 level is $67,385 to $93,166 per annum if determined by peer review board. Physicians may also be eligible for EITHER a Physicians Comparability Allowance of $4,000 to $20,000 per annum, OR Physician Special Pay up to $148,400 based on experience, qualifications, and medical specialty.

For scientists (other than M.D.): Civil Service salary range for GS-14/GS-15 is $60,925 to $93,166 per annum.

HOW TO APPLY: Call 301-496-1014 and request vacancy announcements. Applications must be received or postmarked by October 27, 1995.

These three permanent positions are available immediately and can be filled as either a Civil Service or U.S. Public Health Service Commissioned Corps position. U.S. Citizenship is required.

FDA is an equal opportunity employer and has a smoke free environment.
Assistant/Associate Professor of Forest Soils

The Department of Forest Sciences at University of Alaska Fairbanks invites applications for a 12-month tenure-track position. A Ph.D. is required in Forest Resources Management, Landscape Ecology, Soil Ecology or a related field. Candidates should have a demonstrated ability to investigate problems of productivity, resource development, global change or basic state factor principles related to landscape-level questions of forest soil and forest development. Send resume, all university transcripts, a statement of your research interests, a description of your ability to meet the responsibilities of the position, and three letters of support to: Michele Pouge, SALM/ACE Personnel Contact, P.O. Box 756180, University of Alaska Fairbanks, AK 99775. Application closing is October 7, 1995. The University of Alaska Fairbanks is an Affirmative Action/Equal Opportunity Employer and Education Institution.

Evolutionary Morphologist

The Johns Hopkins University School of Medicine

The Department of Cell Biology and Anatomy, Johns Hopkins University School of Medicine, invites applications for a Junior or Senior Level Faculty position in functional anatomy and evolution, with primary teaching responsibility in human gross anatomy. Applicants must have a Ph.D., teaching experience in gross anatomy, and an established research program in some aspect of vertebrate anatomy or evolution, such as physical anthropology, paleontology, experimental morphology, genetics, or phylogenetic systematics (morphologic or molecular). Deadline for receipt of applications December 1, 1995. Send curriculum vitae, one-page statement of research goals, interests, and names and addresses of three references to: Anatomy Search Committee, Search Office of Cell Biology and Anatomy, Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

Postdoctoral Position available immediately to study the molecular mechanisms of magnesium permeability and intracellular magnesium homeostasis in eukaryotic cells. Applicants should have a strong background in molecular biology. Please send curriculum vitae, brief statement of research interests, and names of two references to: Dr. Karen M. Itoh, Laboratory for Cancer Research, College of Pharmacy, P.O. Box 789, Rutgers University, Piscataway, NJ 08855-0789. Fax: 908-445-0687. Affirmative Action/Equal Opportunity Employer.

Postdoctoral position available immediately to study the molecular mechanisms of magnesium permeability and intracellular magnesium homeostasis in eukaryotic cells. Applicants should have a strong background in molecular biology. Please send curriculum vitae, brief statement of research interests, and names of two references to: Dr. Robin R. Preston, Department of Physiology, The Medical College of Pennsylvania and Hahnemann University, 3200 Henry Avenue, Queen Lane, Philadelphia, PA 19129. Fax: 215-843-6516. Email: preston@medcolpa.edu. The Medical College of Pennsylvania and Hahnemann University is an Equal Opportunity/Affirmative Action Employer.

Biometrician II (Theoretical Population Genetist)

The Genetics Laboratory of the Alaska Department of Fish and Game (ADFG) is seeking applicants for a Genetics Biometrician. The incumbent will serve as the consulting statistician for one of the oldest and largest fish genetics labs in North America. The position involves excellent borrower and computer facilities. Relocation allowance and $45,000 per year. Interested applicants should send a curriculum vitae, research interests, and names of three references to: Dr. Lisa Seeb, Alaska Department of Fish and Game, 333 Raspberry Road, Anchorage, AK 99518. E-mail: Lisa@FishGame.state.ak.us. The State of Alaska is an Equal Opportunity/Affirmative Action Employer.

Postdoctoral Position

Requires Ph.D. or M.D. Will pursue basic and clinical studies of human gene therapy. Vectors derived from retroviruses and adenoviruses will be used in these studies. A strong background in molecular/cellular biology is desirable. In initial studies, use of established human embryonic kidney cell lines and the adenovirus system will be used to determine the effects of gene therapy on cell growth, cell cycle, and viral replication. Send curriculum vitae, a statement of research interests, and the names and addresses of three references to: Dr. Rene Duryea, Department of Medicine, School of Medicine, University of California, CA 91100-3000. Fax: 818-301-5448. Email: jyasminch@smtplink.cooh.org. Affirmative Action/Equal Opportunity Employer.

One Instructor/Research Associate Position

Instructor/Research Associate will teach graduate courses in gene regulation and will conduct research on hepatic gene regulation with emphasis on nuclear transcription factors. Requires Ph.D. in biophysical sciences, molecular and cellular biology and demonstrated ability in DNA-protein interactions, functional analysis of transcription factors, antisense methodologies, and/or transgenic approaches. Send curriculum vitae, a statement of research interests, and the names and addresses of three references to: Dr. Alan Fein, Department of Physiology, University of Connecticut Health Center, Farmington, CT, 06030-3505. Fax: 203-679-1269; Email: afine@urron.uc.edu. An Affirmative Action/Equal Opportunity Employer. Mentions with Disabilities/VI's.

The DuPont Company is seeking qualified applicants for a postdoctoral research position in molecular toxicology. Principal responsibilities include: 1) developing and operating a core molecular toxicology laboratory in support of Rhône-Poulenc, DuPont, and its subsidiaries. 2) Reading and conducting original research investigations within a project program on the adverse affects of chemicals on the human. 3) Developing an understanding of the basic toxicology and working knowledge of all basic molecular protocols. Essential experience with advanced molecular technologies and a proven ability to effectively communicate and teach molecular biology and toxicology. Send curriculum vitae and procedures to others is a strong asset. A Ph.D. in toxicology, biology, or a related field and at least 5 years of postdoctoral or relevant work experience is required. Please send a cover letter and curriculum vitae to: Mary Jane Euden, E.I. duPont de Nemours and Company, Central Research and Development, Haskell Laboratory for Toxicology and In-dustrial Medicine, P.O. Box 50, Elkton Road, Newark, DE 19714. DuPont is an Equal Opportunity Employer.

Postdoctoral Fellowship in Developmental Biology, University of Washington School of Medicine

A position is available to study the cellular and biochemical basis of prion diseases, which are unusual neurodegenerative disorders of humans and animals, including Creutzfeldt-Jakob disease, kuru, and scrapie. The focus of the laboratory is how cells posttranslationally process and localize normal, mutant, and infectious forms of the prion protein. These studies are relevant to understanding other neurodegenerative disorders, including Alzheimer’s disease. Qualifications include a Ph.D. or M.D. degree in biology, and/or experience in cell-culture and molecular and cellular techniques. Please send a curriculum vitae, statement of research interests, and the names and addresses of three references to: David A. Harris, M.D., Ph.D., Department of Cell Biology and Physiology, Washington University School of Medicine 660 South Euclid Avenue St. Louis, MO 63110. An Equal Opportunity Employer.

Postdoctoral Fellowships

The Hebrew University of Jerusalem

The Hebrew University of Jerusalem invites applications for the Goldeh Meir (and other) POSTDOCTORAL FELLOWSHIPS in the Department of Applied Sciences, Agriculture and Medicine for the 1995-96 academic year. Applicants must be an early stage of their professional career (not later than three years after completion of their doctoral dissertation). Positions are available for one academic year and may be extended for another year. The fellowship provides a 12 month stipend (with COL adjustments), rent allowance and a return ticket to Israel. The application forms can be obtained from: The Office of University Funds, P.O. Box 1255, Jerusalem 91904 and must be returned by November 30, 1995. Applicants may apply either for a University Fellowship (as above) or a Lady Davis Fellowship, but need not apply to both.

POSTDOCTORAL RESEARCH ASSOCIATE positions, funded by NIH, are available September 1, 1995, to study the acute and chronic aspects of the negative effects of alcohol on the brain. Study will involve hemodynamic and electrophysiologic measurements in chronically instrumented conscious rats as well as central administration of drugs to investigate the role of central sympathetic pathways in the interaction. Candidates must have a Ph.D., M.D., D.V.M. or equivalent degree. Familiarity with neurobiology and autono-mous忽and/or behavioral pharmacology is desirable. Application should include a description of research experience, and names of three references to: Dr. Abdul A. Abdel-Rahman, Department of Pharmacology, East Carolina University School of Medicine, Greenville, NC 27858. Federal law requires proper documentation of identity and employability at the time of employment. Affirmative Action/Equal Employment Opportunity.

Postdoctoral Positions, Arkansas Cancer Research Center

Applications are now solicited for postdoctoral positions at the University of Arkansas for Medical Sciences. Specific areas include identification of genes associated with cell-mediated cytolysis, gene and immunotherapy, and regulation of tumor growth and apoptosis by cytokines and oncogenes. Ph.D.s and/or M.D.s with experience in molecular biology, cell biology and/or immunology are encouraged to apply. Send curriculum vitae and names of three references to: Dr. Jacki Kornbluth, Division of Biostatistics/Oncology, University of Arkansas for Medical Sciences, 430 West Medical Plaza, Little Rock, AR 72205. Fax: 501-686-8165; Email: jkornbluth@acrc.uams.edu. Affirmative Action/Equal Opportunity Employer.

A postdoctoral position is immediately available in a multidisciplinary biology group to study molecular mechanisms of endothelial dysfunction by atherogenic lipoproteins. Applicants should have a Ph.D. and/or M.D. degree with a strong background in endothelial biology, molecular biology, lipid metabolism, signal transduction and immunology. Experience in endothelial gene regulation, especially promoter activation is highly desirable. The stipend is $28,000 to $30,000 commensurate with experience. Send curriculum vitae to: Michael B. Steimerman, M.D., Room 413B, Basic Science Building, New York Medical College, Valhalla, NY 10595. Telephone: 914-993-4146; Fax: 914-993-4679.

Postdoctoral Positions, Neurobiology

Two positions available immediately 1) to study the binding pocket of the GnRH receptor (see JBC, 270:18885, 1995) and 2) to study the GnRH receptor activation (see JBC, 270:16683, 1995). Unique environment encompassing molecular biology, pharmacology, and computational receptor modeling. Facility with molecular biology techniques required. Familiarity with molecular pharmacology, generating stable cell lines, and/or theoretical and experimental biophysics is preferred. Send curriculum vitae and letters of three references to: S. C. Sealfon, Neurobiology, Box 1065, Mount Sinai School of Medicine, New York, NY 10029-6574. Email: sealfon@neuro.med.mssm.edu. The State of New York is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS

The Hebrew University of Jerusalem

Israel

The Hebrew University of Jerusalem invites applications for the Goldeh Meir (and other) POSTDOCTORAL FELLOWSHIPS in the Department of Applied Sciences, Agriculture and Medicine for the 1995-96 academic year. Applicants must be an early stage of their professional career (not later than three years after completion of their doctoral dissertation). Positions are available for one academic year and may be extended for another year. The fellowship provides a 12 month stipend (with COL adjustments), rent allowance and a return ticket to Israel. The application forms can be obtained from: The Office of University Funds, P.O. Box 1255, Jerusalem 91904 and must be returned by November 30, 1995. Applicants may apply either for a University Fellowship (as above) or a Lady Davis Fellowship, but need not apply to both.
Research Technician
Laboratory of MicroChemistry

The Lindley F. Kimball Research Institute, a division of the New York Blood Center, has a career-enhancing opportunity for a Research Technician in its Laboratory of MicroChemistry. The incumbent will participate in all aspects of the challenging research being conducted by the Laboratory, which synthesizes, purifies, and characterizes biomolecules in collaboration with researchers at the Institute. Applicants should have a minimum BS/BA in Chemistry or Biochemistry and related experience. Knowledge of peptide or oligonucleotide chemistry or synthesis, and a willingness to learn automated DNA sequencing and synthesis are required. Experience with HPLCs and computers, excellent organizational and communication skills, and a desire to conduct original research in the area of peptide chemistry will be expected.

This position commands a competitive salary and a comprehensive benefits package including full health coverage and liberal vacations. For immediate consideration, please send your CV to:

Department JF, Human Resources, New York Blood Center, 310 E. 67th Street, New York, NY 10021; Fax (212) 570-3195. An Equal Opportunity Employer M/F/D/V.

\[ \text{Lindley F. Kimball Research Institute} \]
\[ \text{A Division of the New York Blood Center} \]

Faculty Position

The MIT Division of Toxicology at the Whitaker College of Health Sciences and Technology invites applications for a tenure-track faculty position at the Assistant Professor or non-tenured Associate Professor level. Candidates should have doctoral education in biology, chemistry, biochemistry, medicine, or toxicology. Research experience and interests should allow interactions with programs of other faculty members. The goals of which are: (i) to elucidate at cellular and molecular levels mechanisms through which chemical, biological, and physical agents in the environment induce pathogenesis; and (ii) to design and define mechanisms of action of novel and existing therapeutic agents for human and animal diseases. Responsibilities of the position include conduct of an active, independent program of research and participation in educational activities of the Division.

Applicants should submit a curriculum vitae and research summary, and also arrange to have letters from three referees providing evaluations of previous accomplishments as well as a potential for research and teaching sent to:

Gerald N. Wogan
Chairman, Toxicology Search Committee
Division of Toxicology
Room 16-333
Massachusetts Institute of Technology
Cambridge, MA 02139-4307

MIT is an Equal Opportunity/Affirmative Action Employer

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

A Thriving Environment

The Everglades, Florida Bay, Loxahatchee, Kissimmee and Lake Okeechobee: the world of South Florida Water Management District places our talented staff in an unparalleled environment for growth, development, breakthrough and discovery. Join us today, with opportunities available for:

**Estuarine Ecologist (Senior Environmental Scientist)**

We're seeking an applied research scientist who will study ecotone community structure and ecological processes in the coastal lagoons and mangroves of Florida Bay. Minimum requirements include an MS degree with four years environmental science experience. We prefer an individual with a Ph.D in marine or wetland ecology with interests in seagrass or mangrove systems, trophic interactions, spatially articulate modeling, and field studies to characterize, understand, and predict the response of Florida Bay flora and fauna to various natural and anthropogenic stresses, including freshwater inflows and eutrophication. Advanced knowledge of statistics and modeling is preferred. Strong oral skills, a solid publication record, and management of research contracts will be required. Req #950367

**Wetland Hydrogeochemical Modeler**

A research scientist is needed for a scientific team to study freshwater nutrient dynamics and ecological processes, develop spatially articulate hydrogeochemical models, and participate in large-scale gradient studies for the establishment of nutrient loading rules and sustainable hydrologic management for the Everglades. Minimum requirements include a MS degree with modeling experience. We prefer a wetland hydrologist or biogeochemist with a Ph.D and experience with spatial dynamic simulation, phosphorus chemistry, soil processes, and carbonate systems. Req #950368

Candidates applying for either of the two positions listed above should send a letter discussing research interests, a CV with your social security number, and the names, addresses, and telephone numbers of three references to Linda Starr, Human Resources Division, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33416-4680. For more information, contact Dr. Fred Sklar at (407) 687-6504 (phone), (407) 687-6442 (fax), or e-mail at fred.sklar@sfwmd.gov. Deadlines for applications is October 20. The SFWMD offers competitive salaries, excellent benefits and a smoke-free work environment. New hires will be required to successfully complete a pre-placement drug test. Assistance will be provided for candidates with special needs due to disability.

**Wildlife Ecologist (Staff Environmental Scientist)**

The Kissimmee River Basin Division of the District has a staff level opening for a wildlife ecologist to collaborate with an interdisciplinary research team on evaluation of ecological responses to the Kissimmee River restoration project. This position requires demonstrated expertise directing avian (particularly wading bird and waterfowl) studies in wetland systems. Some knowledge and experience conducting studies of small mammal and/or herpetological communities is also desired. Candidates must have a Bachelor's (Masters or Ph.D preferred) Degree and at least two years experience in wildlife biology or related field. Req #950693

For more information, contact Lou Toth at (407) 687-6615. The SFWMD offers competitive salaries, excellent benefits and a smoke-free work environment. New hires will be required to successfully complete a pre-placement drug test. Assistance will be provided for candidates with special needs due to disability. For consideration, send resume including social security # and Req # to Linda Starr, Human Resources Division, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33416-4680.

South Florida Water Management District

The SFWMD is committed to an environment enriched by diversity. We encourage inquiry from all applicants. EOE M/F/D/V
POSTDOCTORAL POSITION

MOLECULAR BIOLOGY


An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

MOLECULAR/CELL BIOLOGY

Position available for Ph.D. and/or M.D. to study vascular biology utilizing techniques to model and research angiogenesis. Areas of active interest include development of recombinant adenovirus systems for transfer of genes into the vascular wall, and application of gene transfer systems to animal models of vascular injury (atherosclerosis, restenosis). A strong background in molecular biology and cell biology, including tissue culture methods, is important.

Please send or FAX curriculum vitae, summary of research experience, and names and telephone numbers of three references to: Daniel Z. Fisher, M.D., Ph.D., Department of Pediatrics, Children's Hospital of Pennsylvania, 3400 Civic Medical Center, 55 Lake Avenue North, Worcester, MA 01655. Telephone: 508 856-5211. Equal Opportunity Employer/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP

MUCOAL IMMUNOLOGY

POSTDOCTORAL POSITION available immediately to study the molecular and cellular basis of murine intestinal intraepithelial lymphocyte development, function, and dysregulation. Research should involve a Ph.D., M.D., or D.V.M. with a strong background in cellular immunology, molecular biology, or endocrine biology. Screening begins immediately and will continue until the position is filled. Please send or FAX curriculum vitae and the names or three references to: Dr. John R. Klein, Department of Biological Science, University of Tulsa, 600 South College Avenue, Tulsa, OK 74104-6058. Telephone: 918-631-5005; Email: BIOL JRK@centum.utulsa.edu. The University of Tulsa is an Equal Employment Opportunity/Affirmative Action Employer.

CELL BIOLOGY/IMMUNOLOGY

POSTDOCTORAL POSITION: A position is available for studies involving Tryptosoma gondii host cell interactions. Must have experience with in vivo infection models utilizing in vitro infection systems, mammalian cell culture, and immunofluorescence. Excellent communication skills and attention to detail are essential. Salary is competitive, and the position is available immediately. Send vitae and three letters of recommendation to: Dr. L. H. Kasper, Department of Medicine, and Department of Microbiology, University of Washington, Box 357314, Seattle, WA 98195-7314. E-mail: kasper@u.washington.edu.

POSTDOCTORAL RESEARCH SCIENTIST

Position available to study molecular aspects of radiosensitive cell cycle checkpoint control and progression in yeast and mammalian systems. Candidate should have a Ph.D. in molecular biology or a related field. Experience with recombinant DNA and yeast preferred but not essential. Send curriculum vitae, names and addresses of three references to: Dr. H. B. Lieberman, Center for Radiological Research, Columbia University, 630 West 168th Street, New York, NY 10032. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

IN VITRO FUSION

Available immediately to study the biochemical and molecular basis of satellite RNA-mediated attenuation of disease symptoms in peanut stunt virus-infected plants. The project involves in vitro studies of plant-virus interactions including RNA-RNA and RNA-protein interactions, and production of transgenic plants expressing viral/RNA sequences. A Ph.D. in Molecular Plant Pathology or related field is required. Salary will be up to $25,000 and commensurate with experience. Send application letter, curriculum vitae, three letters of recommendation, and statement of research interest to: Dr. Daniel A. Stearns, Department of Plant Pathology, University of Kentucky, Lexington, KY 40546. Telephone: 606-525-5909; FAX: 606-323-1961; Email: said@uky.eecs.uky.edu. An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS: To study: 1) Mechanism of DNA repair by eukaryotic and prokaryotic DNA polymerases. Available immediately. Applicants should have a background in biophysics and enzymology of DNA repair. Experience in radioactive incorporation experiments in vivo in saccharomyces, a heterotetrameric enzyme containing several redox centers (flavin, NAD) plus binding sites for tetrahydrofolic acid and other substrates. Available April, 1995. Experience with a prokaryotic or a eukaryotic system is required. Send curriculum vitae, including names and phone numbers of three references to: Dr. Marilyn Jorns, Department of Biology, MS 41 Medical College of Pennsylvania and Hahnemann University, Broad and Vine, Philadelphia, PA 19102.

POSTDOCTORAL POSITION

SIGNAL TRANSDUCTION

Position available to study the role of receptor serine protein kinases in cellular signaling in plants. Applicants must have a Ph.D. in biochemistry, molecular biology or a related field. Prior experience in the area of signal transduction is desired. Send curriculum vitae, a brief statement of research interests and career goals, and names of three references to: Dr. John C. Walker, Division of Biological Sciences, University of Missouri, Columbia, MO 65211. FAX: 314-882-0123. An Equal Opportunity Institution.

POSTDOCTORAL POSITION available in the field of xenonotransplantation with special emphasis on the elucidation of the role of complement in xenograft rejection. Candidates must be an M.D., Ph.D., or M.D./ Ph.D., with strong background in immunobiology, biochemistry or molecular biology. Send curriculum vitae and names of three references to: Luis A. Valdivia, M.D., Ph.D., Pittsburgh Transplantation Institute, University of Pittsburgh School of Medicine, 200 Lothrop Street, Pittsburgh, PA 15261. FAX: 412-624-6666. Equal Opportunity Employer.

POSTDOCTORAL RESEARCH position available to study the mechanism by which integrin mediated cell adhesion generates signals which control myogenic cell differentiation and/or v-src oncogene initiated cell proliferation. Interested candidates should send curriculum vitae and names of three references to: David Boettiger, Department of Microbiology, University of Pennsylvania, Philadelphia, PA 19104-6021. Email: boettige@mail.med.upenn.edu. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.


POSTDOCTORAL POSITION

MOLECULAR PATHOLOGY

Position available to study the function of cytokerin in platelets. A Ph.D. in molecular biology or related field is required. Experience in mouse and human biology, particularly studies on platelet function, are desirable. Send curriculum vitae, names and addresses of three references to: Dr. Xian Zhang, Department of Experimental Pathology, Holland Laboratory, American Red Cross, 15601 Crabbs Branch Way,Rockville, MD 20855. Equal Opportunity Employer, Minority/Female/Disabled/Veteran.

POSTDOCTORAL POSITIONS available immediately for work on chemosensory systems (olfaction and taste) with member(s) of the Chemosensory Training Group faculty in the Neuroscience Program, Florida State University, Tallahassee, FL. NIH funded postdoctoral positions (1 at least 2 years maximum) must be U.S. citizen or permanent resident. Drs. J. R. Contreras, M. Meredith, J. C. Smith, P. Q. Trombley, G. Whitfield. Please send curriculum vitae and names of three references to: Dr. Xian Zhang, Department of Experimental Pathology, Holland Laboratory, American Red Cross, 15601 Crabbs Branch Way, Rockville, MD 20855. Equal Opportunity Employer/Affirmative Action Employer.

RESEARCH ASSOCIATE V (NMR FACILITY MANAGER)

The College of Basic Sciences at Louisiana State University is seeking applicants for the position of RESEARCH ASSOCIATE V (NMR facility manager). The facility consists of Bruker AM-400 and AMX 500 instruments equipped for multi-dimensional and multi-nuclear experiments and Silicon Graphics computers for off-line processing. Duties include training users, supervising other operators, facility maintenance, and application and development of new experiments and procedures. The Research Associate V (facility manager) will also work closely with facilities personnel in the operation of additional NMR spectrometers maintained by the Department of Chemistry. A Ph.D. in chemistry or biochemistry and two to four years of experience in the operation and maintenance of NMR spectrometers is required. Experience with multi-nuclear and multi-dimensional NMR applied to biological macromolecules, RF electronics, and/or NMR instrumentation is desired. Application deadline is September 25, 1995, or until candidate is selected. Anticipated start date is October 1, 1995. Send application letter, curriculum vitae, and three recommendation letters to: Dr. Kathleen Morden, Department of Biochemistry, 322 Choppin Hall, Louisiana State University, Baton Rouge, LA 70803.

LSU is an Equal Opportunity/Affirmative Action Employer.

Pediatric Physician SCIENTISTS: The University of Kentucky College of Medicine is interested in recruiting pediatricians (M.D. or M.D., Ph.D.) who are committed to laboratory investigation in areas of oncology, neuroscience, endocrinology, infectious disease or pulmonary diseases as applied to pediatrics. Clinical area of interest should be related to one of the above or in neonatology or critical care. Modern laboratory space, protected time, junior or senior academic rank, opportunities for collaboration or mentorship by senior investigators, and substantial intramural funding is available. Junior investigators with postdoctoral or senior staff level experience in areas of related active funding are encouraged to apply. Interactions with other faculty in the clinical basic science departments as well as the Sanders-Brown Center on Aging, Markey Cancer Research Center, School of Public Health and College of Agriculture provide a particularly stimulating clinic and research environment. Interested individuals should send curriculum vitae and statement of past experience and future plans to: V. Man- kad, Chairman, Department of Pediatrics, University of Kentucky Medical Center, 800 Rose Street, Lexington, KY 40536-0284.

GEO-CENTERS, INC.

RESEARCH SCIENTISTS

GEO-CENTERS, INC., a high technology R&D firm specializing in scientific research services for the DoD and DoE, has challenging multidisciplinary research opportunities at its New Jersey location. Research involves developing new classes of chemical/biological microminiature detectors and integration with micro/optoelectronic circuitry to create biosensor components. The use of optical and physical chemical and polymer/metal other device applications will also be investigated. Successful candidates will have a Ph.D. in chemical, biological, or physical science/engineering specializing in immunochromatics, pro- tein chemistry, biology, analogous bearings. Submit a resume with salary history to: ATTN: Code RS, GEO-CENTERS, INC., 615 Hope Road, Building 3 A, Eaton- ton, NJ 08518. Telephone: 609-464-7724. Equal Opportunity Employer/Affirmative Action Employer.

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WE'RE DOING IT AGAIN!

UCSD Biology has a large and prestigious faculty spanning many areas of biological science and offers one of the most vigorous graduate programs in the country. Last year we initiated a major expansion making seven new faculty appointments, three at the Full Professor level and four at the Assistant Professor level. (An eighth is in progress.) Applications are now invited for six more appointments at the Assistant Professor level. In this round we are targeting immunology for two positions and prokaryote biology and plant molecular biology for one position each. In addition, we are recruiting for two positions as part of a new program we are initiating in understanding brain function and behavior. We expect to make more appointments in this and other areas over the next several years.

1. Two Assistant Professorial positions in Immunology. Individuals with a broad interest in the basic biology of immunity are encouraged to apply. Topics of interest may include: the function of cytokines and adhesion molecules in inflammation; signal transduction leading to lymphocyte activation; leukocyte development and function; protein trafficking related to receptor assembly or antigen presentation, and molecular mechanisms of host and pathogen interactions. The successful candidate is expected to have an innovative, exciting research program that utilizes contemporary techniques in biochemistry, genetics, and cell biology.

2. Two Assistant Professorial positions as part of the new initiative in Brain & Behavior. Outstanding candidates are sought addressing important problems in any of a number of areas including CNS function in intact animals (imaging) or semi-intact brain preparations, computational analysis of CNS function, neuroethology, CNS molecular physiology, genetics of higher brain function, or invertebrate behavior.

3. An Assistant Professorial position in Prokaryote Biology. Exceptional candidates pursuing innovative approaches to any broad or fundamental aspect of the archaea and bacteria are encouraged to apply.

4. An Assistant Professorial position in Plant Molecular Genetics. Exceptional candidates pursuing innovative problems in any area of plant biology are encouraged to apply. Of particular interest will be candidates with innovative approaches to understanding signal transduction pathways and plant/pathogen interactions.

Ph.D., postdoctoral experience, and demonstrated ability to conduct an independent research program are required. Salaries will be commensurate with stature and based on the UC scale. Applications for these positions should be submitted by October 20, 1995. Please submit curriculum vitae, bibliography, statement of professional goals and research interests, and the names of three references to: Department of Biology 0346, University of California, San Diego, 9500 Gilman Drive, La Jolla, California 92093-0346. Please identify the position you wish to be considered for and indicate the journal advertisement to which you are responding.

The University of California, San Diego, is an Equal Opportunity/Affirmative Action Employer.

NATIONAL INSTITUTES OF HEALTH

DIRECTOR, DIVISION OF RESEARCH GRANTS

The National Institutes of Health (NIH) invites applications for the position of Director, Division of Research Grants (DRG). This is a Civil Service position in the Senior Executive Service (SES), with a salary ranging from ES-1 to ES-6 level per annum (currently $97,991 to $122,040, including a locality allowance). Physicians may be eligible for a comparability allowance of up to $20,000 per year. A recruitment bonus of up to 25% of base pay may be available to a non-Federal candidate selected for this position, subject to individual approval. A relocation bonus of up to 25% of base pay may be available to a permanent Federal employee who must relocate to accept this position, subject to individual approval. A one-year probationary period must be served by the individual selected if not currently in the career SES.

The incumbent serves as a principal advisor to the Director, NIH, and participates in discussions relative to the development of major policy decisions affecting the research grant and review program of the PHS; directs the search for qualified individuals to serve as members of initial review groups; participates in interagency discussions on the principal problems of Federal granting agencies, and meets with private research agencies to address shared issues relating to review; assures that effective administrative procedures are established so that program operations and obligations of government funds and other resources are rendered consistent with statutory and regulatory requirements and within limitations imposed; works closely with the Peer Review to assess broad policy issues related to the scientific review of research grants; provides leadership Oversight Groups in developing the scientific and administrative skills for Senior Research Administrators; and ensures smooth interface between program goals of Institutes and the Divisions review policies and procedures of the DRG.

The vacancy announcement with mandatory and desirable qualifications requirements can be obtained by calling (301) 496-1443. Applicants are required to submit a Bibliography, and either a Curriculum Vitae, Application for Federal Employment (SF-171), Optional Application for Federal Employment (OF-12), Resume, or other written format which addresses the requirements indicated in this announcement, to the following address:

NATIONAL INSTITUTES OF HEALTH
Division of Senior Systems
6120 Executive Blvd, Ste 100
Rockville, Maryland 20852

Attention: Janice Bain

Applications must be postmarked no later than November 1, 1995.

- Applicants with access to E-Mail may transmit their materials to the following E-Mail address: feweiker@helix.nih.gov
- Applicants with access to the Internet's World Wide Web may wish to browse the NIH Home Page, and may apply through the Web at the following URL: http://www.nih.gov/news
- Application materials may be FAXed to (301) 402-6139. (Please limit FAXed materials to no more than 10 pages)

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, political affiliation, marital status, sexual orientation, handicapping condition, age or membership or non-membership in an employee organization.

NIH is an Equal Opportunity Employer
The Bernard Prize nomination.

Previous national candidates include... Skehel, an independent researcher. The Selection Committee seeks nominations for the 1995 ICN Prize. Nomination forms may be obtained from ICN Pharmaceuticals, Attention: Virology Prize, 3300 Hyland Avenue, Costa Mesa, California 92625, USA. The deadline for receipt of nominations is November 15, 1995. The recipient of the Prize will be announced early in 1996.

NAVAL RESEARCH LABORATORY
STENNIS SPACE CENTER, MS
HEAD, OCEAN DYNAMICS AND PREDICTION BRANCH
OCEANOGRAPHY DIVISION

The Naval Research Laboratory at the Stennis Space Center (NRL-SSC), one hour east of New Orleans, LA, seeks a Senior level scientist to head its Ocean Dynamics and Prediction Branch. The scientist will head a branch of nationally and internationally recognized scientists in performing basic and applied research in the areas of ocean and ice dynamics, computational numerical techniques, data assimilation, and the analysis of satellite oceanographic data as related to the development of ocean modeling and data assimilation capabilities.

As branch head, the applicant will be responsible for the planning, direction, formulation, and execution of the scientific goals of the branch, the administration of its programs and the supervision of its scientists and personnel. He/she will have the opportunity to pursue and direct research with access to substantial computational facilities: a Cray C90 at SSC; a Thinking Machines CM-200 and CM-5 at NRL-DC; an IBM SP-2 and an Intel PARAGON via the DoD High Performance Computing Network. Excellent facilities for analysis, video animation and graphical display, a satellite receiving and processing system and extensive data bases are also available.

Salary: $70,482-$91,629 (GS-15 level). Experience in the interdisciplinary nature of the branch, the applicant should have a diverse background in one of the physical, computational or engineering sciences and substantial numerical computational experience. A Ph.D. is desired. In addition, the applicant should have a documented record of research publications, accomplishments and research team leadership.

Submit a curriculum vitae, "Optional Application for Federal Employment" (OF-612), references, list of publications and statement of research interests by 29 September 1995 to: Naval Research Laboratory (Code 1870), Attn: Lou Ann Lott, Anncmt. 95-070, Stennis Space Center, MS 39529-5004. To receive a copy of the application form and announcement, please call Lou Ann Lott at (601) 688-5204. NRL is an equal opportunity employer.

THE UNIVERSITY OF WESTERN ONTARIO
DEPARTMENTS OF CHEMISTRY AND EARTH SCIENCES

The Departments of Chemistry and Earth Sciences invite applications for a tenure track appointment at the Assistant Professor level in Analytical Environmental Chemistry and Geochimistry. The appointment will be held jointly between the Departments of Chemistry and Earth Sciences, and will involve teaching and research responsibilities in both areas. Candidates should have a Ph.D., show exceptional promise in research, and be strongly committed to teaching at the undergraduate and graduate levels. The applicant will be a key member of a group directing undergraduate and graduate programs in Environmental Science. Individuals with expertise in analytically based aspects of the chemistry and geochemistry of the environment are particularly encouraged to apply.

The Departments of Chemistry and Earth Sciences have modern analytical facilities suited to environmental chemical and geochemical studies, and also have ready access to modern surface analytical instrumentation. Besides developing a vigorous, independent research program, the successful applicant will also have the opportunity to collaborate with existing faculty in many areas of Environmental Science.

Applications, including curriculum vitae, publication list, statement of research plans and teaching interests, and names, addresses and telephone/fax numbers of three referees, should be sent to Dr. Nils O. Petersen, Chair, Department of Chemistry or Dr. Fred J. Longstaffe, Chair, Department of Earth Sciences, The University of Western Ontario, London, Ontario Canada N6A 5B7. The deadline date for applications is November 30, 1995. For further details on Departmental facilities, undergraduate and graduate programs, existing research activities, or other matters, please contact Drs. Petersen or Longstaffe.

Positions are subject to budget approval. In accordance with Canadian immigration requirements, priority will be given to Canadian Citizens and permanent Residents of Canada. The University of Western Ontario is committed to employment equity, welcomes diversity in the workplace, and encourages applications from all qualified individuals including women, members of visible minorities, Aboriginal persons, and persons with disabilities.
Molecular Endocrinologists

Merck Research Laboratories in Rahway, New Jersey, has several openings for doctoral-level scientists in our Molecular Endocrinology group — a top-notch team pursuing basic research oriented towards drug discovery for the therapy of diabetes, obesity and other metabolic disorders.

Successful candidates must have a Ph.D. or equivalent in Molecular and Cell Biology or Biochemistry and have completed postdoctoral training in these or related disciplines. Additional professional experience and familiarity with the pathogenesis of endocrine disorders is desirable. A proven publication record and strong oral and written communications skills are required. Those with specific expertise in some of the following fields are particularly encouraged to apply:

**Fields** — Signal transduction, gene expression/nuclear receptors, protein sorting and trafficking, physiology and biochemistry of glucose metabolism.

**Techniques** — Cloning (potentially including expression- and subtraction-cloning), characterization and cloning of transcription factors, protein purification, yeast hybrid system, protein expression systems and whole animal tracer infusion (cuglycemic clamp, etc.).

Merck Research Laboratories, a division of Merck & Co., Inc., is located approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. For consideration, please send your resume with the names of three references to: Human Resources, Merck Research Laboratories, P.O. Box 2000, RY80-A3, Ad #S-166, Rahway, NJ 07065. We are an affirmative action/equal opportunity employer M/F/D/V.

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National Institute of Allergy and Infectious Diseases
National Institutes of Health

NIH SEEKS TWO SCIENTISTS/PHYSICIANS
FOR EXTRAMURAL BASIC IMMUNOLOGY BRANCH

The Division of Allergy, Immunology and Transplantation (DAIT) is seeking two outstanding physicians (M.D.) or scientists (Ph.D.) to serve as Chief of the Basic Immunology Branch and Chief of the Molecular and Structural Immunology Section within that Branch. Candidates should have a strong research background in the fields of molecular or cellular immunology, microbiology, or biochemistry. Responsibilities include providing professional and scientific leadership on a broad array of activities necessary for the planning, evaluation, direction and coordination of the Basic Immunology Branch and its Molecular and Structural Immunology Section. We offer competitive salaries and outstanding benefits.

The Basic Immunology Branch Chief is a GS-15 position with a salary range up to $92,856 per annum for physicians and $88,326 per annum for non-physicians. The Molecular and Structural Immunology Section Chief is a GS-14 position with a salary range up to $84,710 per annum for physicians and $75,865 per annum for non-physicians. Physicians comparability allowance up to $20,000 may be applicable.

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

Personnel Office
PHS/NIH/NIAD
Bldg. 31, Room 7A-20
9000 Rockville Pike
Bethesda, MD 20892
Announcement No AI-95-075/Al-95-076
Telephone#: 301-496-1940
Fax#: 301-496-1940
ATTN: Kristie Daniel

U.S. Citizenship required.

NIH is an Equal Opportunity/Affirmative Action Employer.

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Columbia University
College of Physicians and Surgeons

Department of Biochemistry and Molecular Biophysics

We seek outstanding candidates for faculty positions in biochemistry and molecular biology. Both tenure-track and tenured positions are available.

We are recruiting researchers with interests in signal transduction, cell cycle control, intercellular communication, transcriptional regulation, and enzymology and enzyme mechanisms. We are also interested in scientists who plan to combine organic and physical chemical methods with molecular biology in order to solve fundamental biological problems.

Candidates should submit a curriculum vitae, bibliography, summary of current and future research goals, and three letters of recommendation. Applications should be addressed to: Max Gottesman, Molecular Biology Search Committee, Department of Biochemistry and Molecular Biophysics, Columbia University, 630 West 168th Street, New York, NY 10032.

Columbia University is an equal opportunity/affirmative action employer.

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PROFESSOR
Cardiovascular Research Program

The Departments of Cell Biology and Cardiology have an opening for a Professor at Harvard Medical School to lead the Cardiovascular Research Program of the Department of Cardiology at Children's Hospital. We seek a distinguished Ph.D. or M.D. scientist to provide scientific leadership and attract external funding in molecular cardiology. The successful candidate will direct a program in normal and abnormal cardiovascular development with an emphasis on science basic to childhood cardiovascular disease. Areas of particular interest include developmental biology, cell electrophysiology, signal transduction, cell cycle regulation, structural biology, vascular biology, human genetics and gene regulation. The individual will also provide leadership in the teaching of cell biology at the Harvard Medical School, as well as providing advice, direction and mentorship to trainees. The candidate should be capable of leading the Department to a position of scientific prominence, and should have demonstrated experience and excellence in teaching, as well as the strong leadership qualities and administrative skills necessary to develop the research effort.

Applications, including a current c.v., bibliography and research interests should be sent to: Dr. James Lock, Co-Chair of the Search Committee, Children's Hospital, Department of Cardiology, Farley 217, 300 Longwood Avenue, Boston, MA 02115. Harvard Medical School and Children's Hospital are Equal Opportunity/Affirmative Action Employers and encourage the application of qualified women and minorities.
Department Head Position

Professor and Head Department of Entomology: The College of Agriculture at the University of Arizona invites applications and nominations for the position of Head of the Department of Entomology. The successful candidate is expected to provide strong innovative interdisciplinary leadership in the areas of research, teaching and extension. The candidate should have excellent research credentials in an area that would be considered part of a modern department of entomology, e.g., ecology, behavior, pest management, insect/plant interactions, molecular and cellular biology, and physiology. The department consists of 23 faculty members (6 of whom are joint appoints from other departments) who reside either on campus or at two off-campus experiment stations located in southern Arizona. The Department of Entomology has a commitment to both basic and applied research. It maintains strong ties with the Center for Insect Science and similar academic units as well as with the agricultural industry of the state of Arizona. This appointment will be available on or after July 1, 1996. A Ph.D. in entomology or a related discipline is required. Evidence of administrative ability is essential. The successful candidate will be expected to maintain an active research program. The position also requires experience in or knowledge of undergraduate/graduate teaching and university-based extension programs. The salary will depend upon qualifications and experience. Women and minorities are encouraged to apply. Applications should include a current curriculum vitae, the names, addresses and telephone numbers of six referees, and a statement of qualifications and goals. Applications must be postmarked by November 30, 1995. Letters of support (to be sent by December 15, 1995) are also solicited. Review of applications will begin on December 1, 1995. Application Deadline: The committee will begin considering applications on October 20, 1995, but will accept applications until a suitable candidate is identified. THE UNIVERSITY OF ARIZONA IS AN EEO/AA/AADA EMPLOYER. WOMEN AND MINORITIES ARE ENCOURAGED TO APPLY.

FACULTY POSITIONS IN GEOPHYSICS
The University of Western Ontario

The Department of Earth Sciences, The University of Western Ontario, invites applications from qualified individuals for two tenured track appointments in Geophysics at the Assistant Professor level, with specialization in (a) seismology or (b) the physics of earth materials, including high pressure geophysics. Sound training in most major aspects of geophysics, as well as a good grounding in geology are prerequisites for these positions. Applicants in specialization (a) should have experience in one or more of global, earthquake, crustal, upper mantle, exploration or environmental seismology. Applicants in specialization (b) should have a strong experimental and theoretical background, and research focused on one or more of the Earth's mantle and core, other planetary interiors or physical properties of minerals, rocks and melts. Successful candidates are expected to pursue vigorous, independent research programs that complement current Departmental activities in observational and theoretical seismology, experimental mineral physics, material science and petrology, and to interact with other disciplines in the Department. Moreover, successful candidates are expected to teach several of the customary undergraduate Geophysics courses, graduate courses in their areas of specialization, and to contribute to other Departmental programs.

The Department has nineteen faculty members (five in Geophysics), more than fifty graduate students, and offers undergraduate and graduate programs in Geology, Geophysics and Environmental Earth Sciences. A wide array of modern research facilities are available, including seismic workstations and high pressure/temperature laboratories that include two cubic unit presses of 200 and 1,000 ton capacity. The Department operates a seismic network in southwestern Ontario.

Applications, who hold the Ph.D. degree, or equivalent, should write to Dr. F. J. Longstaffe, Chair, Department of Earth Sciences, The University of Western Ontario, London, Ontario Canada N6A 3B7 by November 30, 1995. Letters of application should include a full curriculum vitae, a statement not to exceed 500 words, explaining how their background and research interests qualify them for one of these positions, and the names, addresses and telephone numbers of at least three appropriate external referees.

Positions are subject to budget approval. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian Citizens and Permanent Residents of Canada. The University of Western Ontario is committed to employment equity, welcomes diversity in the workplace, and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disabilities.

DEVELOPMENTAL BIOLOGY
UNIVERSITY OF MICHIGAN

Community Chair

DEVELOPMENTAL BIOLOGY
The Department of Biology at the University of Michigan solicits applications for a tenure-track faculty position. We anticipate hiring at the ASSISTANT PROFESSOR level, but outstanding candidates at higher levels may be considered. We seek individuals who combine experimental and genetic approaches to analyze animal development. The successful candidate must have Ph.D. in Biology, Genetics, or related field, and postdoctoral experience. The successful candidate will join an expanding group of cellular and molecular biologists interested in the development of C. elegans, Drosophila, zebrafish, Xenopus, chick and Arabidopsis. In addition to establishing a successful research program, the candidate will be expected to participate in undergraduate and graduate teaching of the department. To apply, send a C.V., copies of reprints, brief summaries of present research and future research plans and arrange to have three letters of reference sent directly by October 16, 1995.

Chair Developmental Biology Search Committee Department of Biology University of Michigan Natural Science Building Ann Arbor, MI 48109-1048

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

VANDERBILT CENTER FOR LUNG RESEARCH (VCLR)

PROGRAM IN HUMAN GENE THERAPY

Seeks a Ph.D. Molecular Biologist at the Assistant or Associate Professor level to: 1) provide basic science support for a growing program investigating the efficiency of intrave-

gene transfer in the treatment of diseases of the lungs, 2) serve as a general core resource to all investigators in the Center for Lung Research and 3) conduct independent, high quality research in some area of Molecular Biology. Tangible evidence of competitiveness for this position includes publications in prestigious journals and competitively awarded research funding support. The VCLR is a multidisciplinary group of investigators interested in understanding the functions and dysfunctions of the lungs and in developing imaginative therapies for the treatment of lung diseases. Research spans the spectrum from basic investigation to clinical trials of new therapies. The Program in Human Gene Therapy is a major thrust of developing Center activities. Vanderbilt University is an equal opportunity employer and, accordingly, women and minorities are encouraged to apply. Letters of application and curriculum vitae and bibliography should be sent to Kenneth L. Brigham, M.D., Director, Vanderbilt Center for Lung Research, T-1217 Medical Center North, Vanderbilt University, Nashville Tennessee, 37232.
Dr. Fernando Cabral, Department of Pharmacology, University of Texas Medical School at Houston, P.O. Box 20708, Houston, Texas 77225. Review of applications will begin on October 10, and continue until the positions are filled. The University of Texas is an Equal Opportunity Employer. Women and minorities are encouraged to apply.
**FACULTY POSITION IN COMPARATIVE MEDICINE**

**VETERINARY PATHOLOGIST**

Department of Comparative Medicine
Stanford University School of Medicine

The Department of Comparative Medicine has a faculty opening for a veterinary pathologist. The position will be at the rank of Associate or Professor in the Medical Center Professoriate. Candidates must have received the D.V.M. or V.M.D. degree (or equivalent) from an institution accredited by the AVMA Veterinary Medical Association and must be a diploma of the American College of Veterinary Pathologists. Applicants should have demonstrated investigative or medical research as evidenced by publications in peer-reviewed journals. Preference will be given to those individuals with a Ph.D. and experience in rodent biology and the use of animal models. The successful candidate will be experienced in supervising a technical staff and will have applied current techniques in diagnostic pathology, e.g., electron microscopy, immunocytochemistry, in situ hybridization, molecular biology, to problems in comparative medicine.

The Department of Comparative Medicine is a basic science department within the School of Medicine. In addition to its academic functions, it also provides the clinical care and management for a large, modern, AAALAC-accredited, central animal facility which includes a critical care unit staffed by veterinary technicians. The role of the veterinary pathologist is to support the diagnostic, teaching, and training activities of the animal facility and to engage in collaborative research in ongoing research projects. Collaborative research opportunities at Stanford include neuroscience, organ transplantation, genetics, infectious diseases, molecular biology, canine inherited diseases, anesthetics, animal behavior, and transgenic mouse studies. The Stanford University School of Medicine is committed to increasing representation of women and members of minority groups in its faculty, and particularly encourages applications from such candidates. Interested candidates should submit a letter containing a description of their career goals and research interests, their curriculum vitae, and names and addresses of 5 references, to: Linda C. Cort, D.V.M., Ph.D., Professor and Chairman, Department of Comparative Medicine, MS08 X347, Stanford University Medical Center, Stanford, CA 94305-5415

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**HEAD OF RESEARCH SECTION ON EUKARYOTIC DNA REPLICATION**

**NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT, NIH**

A position is available in the Laboratory of Molecular Growth Regulation, National Institute of Child Health and Human Development, to head an independent Research Section. Appointment to the position will be at the most senior level and will entail full tenure at the NIH. The applicant must have an established international reputation for success in the field of DNA replication, and must have a primary interest in defining the structural and functional characteristics of the origins of DNA replication in higher eukaryotes. Salary range is $120,000 to $148,400, depending on qualifications. Resources for the proposed Section include: i) a laboratory space for four researchers (including lead investigator); ii) salaries for two post-doctoral fellows and one technician; and iii) an annual operating budget of $150,000 to $200,000 (exclusive of salaries). Ph.D. or equivalent required. Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, membership or non-membership in an employee organization.

To apply, please send curriculum vitae, reprints, description of relevant research experience and a list of references to: Dr. Bruce Howard, Chief, Laboratory of Molecular Growth Regulation, DHHS, NIH, National Institute of Child Health and Human Development, Building 6, Room 6-8326, CENTHER DR MS 2753, BETHESDA, MD 20892-2753.

Applications must be received by October 6, 1995.

NIH/NICHD is an Equal Opportunity Employer

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**MOLECULAR TOOL, LLC.**

Molecular Tool is a biotechnology company located on the Hopkins Bayview Research Campus in Baltimore, Maryland committed to the development and commercialization of highly integrated, DNA-based systems for the analysis and interpretation of genetic variations. Molecular Tool has openings for the following positions.

**SCIENTIST-NUCLEIC ACID BIOCHEMIST**

This individual must have Ph.D. in Biochemistry or related field and 0-5 years postdoctoral experience in nucleic acid biochemistry and enzymology. The selected candidate will work with a multidisciplinary team on the development of genetic analysis technologies and products, including DNA polymerase reaction optimization, miniaturization of oligonucleotide assays, and development of solid phase quantitation and genotyping methods.

**RESEARCH ASSOCIATE**

Responsible for test development, performing routine processing, operations, troubleshooting operational processes and QC/QA testing. Must have MS in Chemistry, Biology or related field. Knowledge of basic molecular biology techniques; ability to learn and understand new technologies; and at least 2 years experience in research & development desired. Computer skills a plus.

Please forward two copies of your resume along with three references and salary history to Human Resources, Molecular Tool, Alpha Center, 5210 Eastern Avenue, Baltimore, MD 21224. EOE

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**NATIONAL INSTITUTES OF HEALTH**

The Molecular Biology and Gene Regulation Section, Diabetes Branch, National Institute of Diabetes and Digestive and Kidney Diseases seeks an outstanding candidate with a Ph.D. and/or M.D. and one to two years of postgraduate training, to participate in a research program studying gene regulation in the adipose cell. The applicant should have an interest and considerable experience in molecular biology, pharmacology, and biochemistry (protein purification/characterization). Research experience cloning transcription factors and studying hormonal regulation of gene expression must be proved by publications or preprints. Starting salary is $40,000 - $45,000, which may be negotiable depending on qualifications. Applicants must be U.S. citizens or permanent residents. Interested candidates should submit a curriculum vitae, several reprints, a summary of research interests, and the names of three references within 30 days of publication to:

Merc Reitman, M.D. Ph.D.
National Institutes of Health
Bldg. 10, Room 4N-250
10 Center Drive MSC 1770
Bethesda, MD 20892-1770
Amoco’s Environment, Health and Safety Department in Chicago, Illinois has a position available in its Product Registration and Toxicology Division.

The position involves the evaluation of toxicological information, communication of toxicological information to business clients and customers, coordination and review of toxicology testing, and representation of Amoco in industry trade association activities.

Applicants must have a degree in Toxicology or related field (Ph.D. preferred). Desire individual with industry experience and knowledge of health risk assessment. Strong oral communication and writing skills are essential.

Amoco offers an excellent compensation and benefits package. For consideration, reply with resume and salary history to:

**AMOCO CORPORATION**

Mail Code P069M4
130 East Randolph Drive
Chicago, IL 60601

Equal Opportunity Employer

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**BIOLOGY DEPARTMENT**

**THREE FACULTY POSITIONS**

The Biology Department at Syracuse University, with established research strengths in population biology, and cell and molecular biology, and with unique research interactions between these areas, invites applications for three tenure track positions described below. The Department has excellent research facilities, one third of which were extensively renovated recently. We anticipate appointing three outstanding individuals for the 1996-97 academic year, one at the Assistant Professor level and two at either the Associate or Assistant Professor level. Successful candidates will be expected to establish and maintain vigorous research programs and to attract extramural support. Substantial time will be available for research; and participation in teaching undergraduate and graduate students is expected.

**MOLECULAR/CELLULAR BIOLOGISTS:** We expect to appoint two Molecular/Cellular Biologists. Examples of research areas we would welcome include transcription, the cell cycle, signal transduction, and intracellular trafficking. Apply to: Dr. Shozo Yokoyama at the address listed below.

**POPULATION BIOLOGIST:** We anticipate appointing an individual with interests in evolution or ecology. Apply to: Dr. Sam McNaughton at the address listed below.

We are more concerned with the quality of the applicants than their specific areas of research specialization, but we hope to appoint individuals whose field of interest and expertise complement those currently represented among our faculty. Information about the department is available at: http://web.syr.edu/~biology and http://www.syr.edu/

Applications should include curriculum vitae, description of proposed research program, and names and addresses of three Scientists whom we can contact for letters of recommendation. Applications should be addressed to the individuals listed above with the position of interest described, at: Biology Department, Syracuse University, 130 College Place, Syracuse, NY 13244-1250. All applications received by December 31 will be given full consideration. Syracuse University is an Equal Opportunity/Affirmative Action Employer. Women and members of traditionally underrepresented groups are encouraged to apply.

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**Plant Transformation Facility**

Iowa State University

Iowa State University is establishing a service facility for the transformation of crop plants and is seeking candidates for three positions:

**Facility Director:** This Ph.D.-level scientist will be responsible for the overall management of the service facility and will provide scientific direction by conceiving scientific objectives, conducting research, writing grant proposals and sharing knowledge based upon successful and significant experience in the transformation of maize or soybean.

**Transformation Specialists:** These M.S./Ph.D.-level scientists will transform and regenerate maize or soybeans using constructs provided by users. Candidates must have experience in the transformation and regeneration of maize or soybean. Two positions are available—a maize specialist and a soybean specialist.

Applicants should send a cover letter that indicates the position of interest, a summary of transformation experience, relevant reprints, resume, and the names and addresses of three potential referees to: Dr. Patrick Schnable, Chair, PTF Search Committee, 2161 Agronomy, Iowa State University, Ames, IA 50011 USA.

Review of applications will begin 1 October 1995 (Director) and 1 November 1995 (Transformation Specialists) and will continue until the positions are filled. Further information may be obtained via e-mail: schnable@iastate.edu, FAX: 515-294-2259, or the WWW at URL: http://www.public.iastate.edu/~schnable/transform.html

Iowa State University is an Equal Opportunity/Affirmative Action Employer.

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**Plant Transformation Facility**

Iowa State University

The Children’s Brittle Bone Foundation announces the third international competition for fellowships to study the pathogenesis and treatment of osteogenesis imperfecta. The CBBF hopes to fund two different types of proposals this year: one focused on long term scientific issues in OI which will hopefully lead to treatment or cure, and the other focused on approaches which might have a more immediate impact on the clinical care and treatment for OI.

Each grant is for a maximum of $20,000 which can be used for salary, fringe benefits, and research funds. Applicants may hold either a Ph.D. or M.D. and be in postdoctoral training or hold a junior faculty position.

A second year of support will be available based on evidence of continued progress.

If the applicant is a postdoctoral fellow, a letter of support from the preceptor along with evidence of the preceptor’s external funding for related scientific research is required.

Applications available: October 1, 1995

Filing Deadline: January 15, 1996

Fellows Notified: April 23, 1996

Write to:

CBBF

Attention: Grants and Awards

P.O. Box 27

Highland Park, IL 60035

USA

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P.O. Box 27

Highland Park, IL 60035

USA
**TOXICOLOGY RESEARCH**

Several positions are available in the Toxicology Research Laboratory, University of Illinois at Chicago at the postdoctoral and Research Assistant Professor levels. The Laboratory combines basic and applied (GLP) research activities within a university environment.

**GENERAL TOXICOLOGY**

Research Assistant Professor needed to conduct preclinical toxicology studies for government and industry sponsors in accordance with FDA GLPs. The successful candidate will also establish a basic research program in his/her field of expertise. A Ph.D. is required, and experience or interest in safety assessment is preferred.

**NEUROTOXICOLOGY**

Research Assistant Professor and Postdoctoral Research Associates (2) needed to study toxic interactions among selected neurotoxic chemicals including anticholinesterases and pyrethroids using a variety of techniques. A Ph.D. is required, and experience in cholinesterase assays, neurobehavioral testing, receptor binding, and/or cell culture assays is preferred.

**DRUG METABOLISM**

Postdoctoral Research Associate needed to study the metabolism and toxicity of organophosphorus insecticides and selected xenobiotics in animal models. A Ph.D. is required, and experience in HPLC methodology, enzymology and drug metabolism is preferred. Please submit curriculum vitae, brief summary of research interests and three references to:

Dr. Barry S. Levine, Director
Toxicology Research Laboratory
Department of Pharmacology (M/C 686)
University of Illinois at Chicago (UIC)
1940 W. Taylor St.
Chicago, IL 60612-7353

UIC is an Affirmative Action/Equal Opportunity Employer

**DESSERT RESEARCH INSTITUTE**

**RENO, NEVADA VACANCIES**

**ASSISTANT RESEARCH PROFESSOR**

ENERGY & ENVIRONMENTAL ENGINEERING CENTER

Position will capitalize on research opportunities in fugitive dust emissions and control, air pollution field studies and analysis of suspended particle data sets. Duties include the design and execution of field studies, development of theoretical and empirical models for dust suspension and transport, creation of new measurement technologies for process based wind-blown dust and analytical methods to characterize physical and chemical properties of dust. Position involves proposal preparation and advancement, and is dependent on the procurement of external funding sources. Successful candidate will prepare reports for sponsors and actively publish results in peer-reviewed literature. Requires recent doctoral degree in a physical science or engineering with emphasis in dust suspension, micrometeorology, emissions estimation and pollution control; experience in the organization and execution of field monitoring studies, data analysis and modeling; and demonstrated skills in written and oral communication. A record of previous publications and presentations and successful proposal preparation desirable.

**ASSISTANT OR ASSOCIATE RESEARCH PROFESSOR**

ATMOSPHERIC SCIENCES CENTER

Design, develop and execute original research in the atmospheric sciences, Must show an ability and a record of successful grants and contracts funding and make a substantial contribution to the atmospheric sciences graduate program through teaching and the mentoring of students. Current research specialties are: Cloud physics, atmospheric chemistry, weather modification, direct and remote sensing, aerosol and cloud chemistry, mesoscale modeling and climatology. Requires doctorate in atmospheric sciences or a related discipline; high probability for successful extramural funding; proven record of publication and research management; experience or interest in participating in the teaching program for atmospheric sciences; and good communication skills.

Review of applications begins 1/13/95 and continues until filled. Salaries are competitive and commensurate with qualifications. DRI offers an excellent benefits package. Send letter of application describing your qualifications, research plans, likely funding sources and listing of 3 references to: Recruitment Office, Desert Research Institute, University & Community College System of Nevada, P.O. Box 19040, Las Vegas, NV 89132-0040. DRI is an affirmative action/equal opportunity employer.

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**GLOBAL CAREER OPPORTUNITIES**

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**TOXICOLOGY RESEARCH**

School of Medicine

**CANCER RESEARCH FACULTY POSITIONS**

Faculty positions are available in basic cancer research. Assistant Professor level investigators would have the opportunity to establish an independent tenure-track research program. Associate Professor level candidates will be considered, but tenured positions require an established, funded research program. Research themes of the Division of Molecular Oncology include cancer genetics, oncogene molecular biology, murine development biology, cell cycle regulation, signal transduction, viral oncogenesis, DNA recombination and repair, tumor immunology and cell death.

Interested applicants should forward a C.V. and bibliography together with three names of reference to:

Stanley J. Korsmeyer, M.D.
Division of Molecular Oncology
Washington University School of Medicine
660 South Euclid Avenue, Box 8069
St. Louis, MO 63110

Washington University is an equal opportunity employer.
**THE EDWARD JENNER INSTITUTE FOR VACCINE RESEARCH**

The Institute is an entirely new development funded by Glaxo-Wellcome, MRC, BBSRC and the Department of Health. It will be located alongside the Institute for Animal Health, at Compton, Berkshire, have a core staff of 30 scientists and technologists and a total annual operating budget of about £4 million. The aims of the Institute are to improve understanding of the role of protective immune responses in different diseases, to develop better predictive models to study vaccine candidates for human diseases and to provide new insights into vaccine formulation and adjuvants.

The Head of the Institute is Professor Peter Beverley.

**GROUP LEADERS**

The Institute is seeking to recruit outstanding and innovative scientists as Research Group Leaders. Scientists with experience in immunology, bacteriology, virology, molecular biology and protein structure and expression are invited to apply. Group leaders will be appointed for 5 years in the first instance and will be expected to develop a research programme in accordance with the aims of the Institute and will have first class research facilities and support.

**ADMINISTRATOR**

The Institute also wishes to recruit an administrator. The successful candidate will play a key role in the development of the Institute including management of the laboratories, installation of equipment, hiring of staff and development of effective liaison with the Institute for Animal Health. Previous experience in laboratory or scientific management would be an advantage. The salary for this post will be dependant on experience and qualifications and will be up to £35,000 for an exceptional candidate.

Those interested in these posts may make informal enquiries and obtain further particulars from Professor Peter Beverley on 0171 380 9126 or fax: 0171 436 2956.

Applicants should include a CV, names of three referees and, in the case of Research Group Leaders, a brief statement of research interests and their relevance to the work of the Institute. Send applications to Professor P C L Beverley, ICRF Tumour Immunology Unit, 91 Riding House Street, London W1P 8BT. The Institute is an equal opportunity employer.
Applications are invited for the Lee Kuan Yew Postdoctoral Fellowship from candidates with excellent academic records and proven research ability, and who had obtained their PhD degrees in the last few years.

The Fellowship will be tenable for 3 years in the first instance, with possible extension for 2 further years. It will be held concurrently with the candidate’s appointment as a research staff member in one of the following Faculties/Institutes:

- Faculty of Engineering
- Faculty of Medicine
- Faculty of Science
- Institute of Systems Science
- Institute of Molecular Agrobiology
- Institute of Molecular and Cell Biology
- Institute of Microelectronics

Under the Fellowship, a tax-free stipend of US $1,500 per month will be provided. This will be in addition to the following terms of appointment normally provided to a research staff member:

- Gross annual salary ranges from S$50,600 to S$72,500. (The commencing salary will depend on the appointee’s qualifications and experience.) In addition, a 13th month allowance and an Annual Variable Component may be payable under the flexible wage system applicable to staff on normal contracts.

- Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance, subsidised housing or a housing allowance, education allowance for up to three children subject to a maximum of S$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore.

(US$1.00 = S$1.39 approximately)

All academic staff will be given a networked personal computer (Pentium or Macintosh Power PC) with access to a Cray supercomputer, UNIX hosts, departmental laser printers, a wide spectrum of software, on-line library catalogue, CD-ROM databases, Teleview, Intv and Internet.

Applicants for the Fellowship should send their curriculum vitae and list of publications to:

The Director
Personnel Department
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511

or Telefax: (65) 778 3948

Closing Date: 30 September 1995
STAFF SCIENTIST/SENIOR SCIENTIST

The Boston Biomedical Research Institute invites applications from candidates interested in cellular, molecular and structural biological aspects of non-muscle cell motility, molecular motors and the cytoskeleton. Generous start-up funds and facilities will be available to the successful candidate. The Boston Biomedical Research Institute is an independent biomedical research center that offers an exceptionally collegial and intellectually stimulating environment. Applicants should submit a curriculum vitae, a description of research interests, and names of three references to: Ms. Barbara Zillman, Secretary, Search Committee, Boston Biomedical Research Institute, 20 Staniford Street, Boston, MA 02114. Boston Biomedical Research Institute is an Equal Opportunity Employer.

Rubber Compound CHEMIST to perform all rubber compound formulation including the creation of new recipes and modification of existing recipes for automobile and motorcycle products development. Will develop molded, co-cured, and rubber-to-metal bonded parts to meet customer specifications. Will ensure quality and testing of rubber material and will develop all quality control standards for customers by using ASTM (American Society for Testing and Materials) standard and JIS (Japanese Industry Standard). Will assist in training of production rubber and rubber engineering technicians. Requirements: M.S. in Chemistry. Experience: one year in the job offered or one year as a Chemist in rubber industry for automobiles and motorcycles which includes working on interior and exterior sealing compounds. Compounding with commercial rubber including EPDM (ethylene propylene-diene), ACM (polycrylate), CSN (blypalon), FPM (fluorocarbon), SIS (synepure-isoprene-styrene) and Silicone. Application of double face tape and primer on rubber parts. Testing of rubber material and calibration of test instruments. Must have worked with Japanese Industry Standard JIS K 6801, JIS K 6830, and JIS Z 1528 40 hours per week, 8.00 a.m. to 5:00 p.m., $42,000 per year. Send resumes and proof of requirements to: T. Do, Ref No. 1204, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216. Those who are not authorized to work permanently in the U.S. need not apply.

SUPERVISORY RESEARCH MICROBIOLOGIST

The Division of AIDS, STD and TB Laboratory Research, National Center for Infectious Diseases, Centers for Disease Control and Prevention invites applications for the position of CHIEF, Tuberculosis/Mycobacteriology Branch. This branch is responsible for providing laboratory support for special investigations and special studies of tuberculosis and other mycobacterial diseases; conducting research into the immunology of mycobacterial infections, pathogenic mechanisms, and molecular basis of disease; providing reference diagnostic services to state public health laboratories; and developing, evaluating, and/or improving methods for classifying and identifying mycobacteria and mycobacterial disease. Basic requirements include a degree in microbiology, biology, chemistry, or basic medical science. An advanced degree in microbiology and experience as a principal investigator in bacterial immunology, genetics, and molecular biology is desirable. Civil Service salary range for the position is $57,760 to $88,326 per annum. Salary and benefits are commensurate with education and experience. Interested individuals are invited to send a curriculum vitae with publications to: Ms. Janie Oddy, CDC-HRMO, 1600 Clifton Road N.E., Mailstop K15, Atlanta, GA 30333. CDC is an Equal Opportunity Employer with a smoke-free environment. Candidates must be U.S. citizens since this is a career position.

BIOINFORMATICS

System administrator and developer sought to manage established bioinformatics server (flybase.bio.indi-

University for Drosophila genome project. Unix experience and programming skills required. Start date: December 1995. salary $32,000 to $38,000. Send resumes and references with cover letter to: Don Gilbert, Biology Department, Indiana University, Bloomington, IN 47405; Email: gilbertd@bio.indiana.edu.

STAFF SCIENTIST/SUPERVISORY RESEARCH MICROBIOLOGIST

Research firm in Central Ohio. Research, development and application for Friction Technology (FST). Primary responsibility is leadership, management of FST for pharmaceutical and cosmetic industries. Must also assist chief scientist with application of FST in bio-technology areas, including environmental restoration, and agricultural. Ph.D. in pharmacology. Pharmaceutical science: major field of study. No experience required. Ability to read, write and speak Russian a special require- ment. 40 hours per week Monday to Friday, 9 a.m. to 6 p.m. $45,000 per year. Send two resumes and cover let- ters (no calls): Dr. J. Davies, REE#1089, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

ANNOUNCEMENTS

SDE/GWIS FELLOWSHIPS-1995-96

Graduate women in science announces several FEL- LOWSHIPS for women scientists ($1,500 to $2,000). These are the Eloise Gery in the biological and chemical sciences and the Sigma Delta Epsilon in the natural sciences beginning April. Members are also eligible for the Vesta Notchey fellowship. Applications are due December 1, 1995. Write to: P.O. Box 19947, San Diego, CA 92119 for a self-addressed envelope with a 50¢ stamp ($0.50). For $500 Eli Lily Travel Awards (fall and spring) contact Elizabeth Lund at: lundX003@maroon. tcm.edu or Telephone: 612-624-6282.

SYMPOSIUM


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MEETINGS

The Johns Hopkins Protein Folding Meeting will be held 16-19 March 1996 at the Coolest Center, Berke- ley Springs, WV, two hours drive from Dulles Washing- ton DC Airport. ground transportation available. Session Topics/Chairs: Experimental Detection of Folding Intermediates/Sebastian Doniath and Keith Hodgson; Prediction Methods/David Eisenberg and Peter J. Green; Theory/Mark E. Irwin and Paul Bald- win and Lila Gierasch; Thermodynamics/Ernesto Freire and Peter Privalov; Open discussion of selected topics/Walter England and Karlheinz Kalbacher; Christian Anfinsen Memorial Lecture/Ken Dill, Poster Session/Chair TBA. Places are limited. Request application from: Sandra Taylor, 102 Macaulay Hall, Johns Hopkins University, 3400 North Charles Street, Balti- more, MD 21218 or by Email from (protein@linus. che.jhu.edu). Organizers for 1996 are E. Lattman and G. Rose.

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