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POSITIONS OPEN

UNIVERSITY OF LOUISVILLE
SCHOOL OF MEDICINE
DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Two tenure-track ASSISTANT PROFESSOR positions are available for the fall of 1991. The University of Louisville is part of the state university system and the department is undergoing well-funded expansion at all levels. Candidates should hold a Ph.D., D.V.M., or M.D. degree and have at least 2 years of postdoctoral research experience. Successful applicants will receive good start-up support and line item 12-month salary and will be expected to excel in their respective research endeavors. They should also be able to establish an independent molecularly oriented research program in one of four areas: virology, immunology, pathogenic mechanisms, or cellular immunology. Applicants should send their curriculum vitae, a statement on research interests, and names of three references to: Dr. Gordon D. Ross, Chairman, Department of Microbiology and Immunology, University of Louisville, Louisville, KY 40292. The University of Louisville is an Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

HARVARD MEDICAL SCHOOL
CENTER FOR BLOOD RESEARCH

Applications are invited for a tenured ASSISTANT PROFESSOR OF GENETICS. We are seeking candidates with strong potential for innovative research broadly relevant to the cell and molecular biology of blood cells, host-microbial interactions, and associated diseases. Candidates working in Drosophila or C. elegans will be considered if their research is relevant to the above areas.

The successful candidate will receive a faculty appointment in the Department of Genetics at Harvard Medical School and will be expected to establish an outstanding research program. The program offers significant scholarly and scientific resources and the opportunity to teach medical and graduate students. The center will soon occupy space in a newly constructed medical school campus. Applicants should submit, no later than 31 May 1991, curriculum vitae, reprints of publications, a brief statement of present and future research plans (no more than 500 words), and the names of three references to: Professor Timothy Springer, Chair, Search Committee, Center for Blood and Immunity, 335, 800 Huntington Avenue, Boston, MA 02115.

COLUMBIA UNIVERSITY
CENTER FOR RADIOLOGICAL RESEARCH

Applications are invited for a faculty position at the ASSISTANT PROFESSOR level available after 1 May 1991. The center seeks a scientist with excellent research potential with particular expertise in and/or identification of cellular images for use in transformation assay systems at both the cellular and molecular levels. The center is well equipped for radiobiological studies. Adequate start-up funds will be available. Candidate should have a Ph.D. degree and postdoctoral experience. Salary will be commensurate with experience. Send curriculum vitae, representatives, and names of at least three references to: Dr. Eric J. Hall, Director, Center for Radiological Research, College of Physicians and Surgeons, Columbia University, 630 West 166th Street, New York, NY 10032.

An Affirmative Action/Equal Opportunity Employer.

ANATOMY DEPARTMENT seeks ASSISTANT/ASSOCIATE PROFESSOR expert in molecular and cellular biology. Applicant should have independent program and cooperate with colleagues within and outside the department. Send curriculum vitae to: Dr. Dale E. Bockman, Chairman, Department of Anatomy, State University of Georgia, Augusta, GA 30912–2000. An Equal Opportunity/Affirmative Action Institution.

ANATOMIST

Full-time position. Must have earned doctorate in anatomy and proven teaching and administrative skills. Salary negotiable, depending upon qualifications and experience. Send curriculum vitae to: Dr. Donald J. Martin, L.A. College of Chiropractic, P.O. Box 1166, Whitewater, CA 90609–1166. Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR
SCHOOL OF NURSING
LABORATORY MEDICINE

Assistant professor in the in residence series, Department of Laboratory Medicine, University of California, San Francisco. Duties encompass research, service, and teaching. Minimum requirements include M.D. degree, appropriate training, experience in hemathopathology or histology. California medical licensure. Ninety percent of effort is to be devoted to basic science research efforts within the broad scope of hematology. The incumbent is expected to have independent research support, with at least partial salary for a minimum of 3 years. Ten percent of the incumbent’s time will be devoted to service and teaching related to either hemathopathology or transfusion medicine.

Send curriculum vitae to: Laurence Corash, M.D., Chairman Hematology Section, Department of Laboratory Medicine, University of California, San Francisco, San Francisco, CA 94143–0100. Telephone: 415–476–5780. The University of California, San Francisco, is an Equal Opportunity/Affirmative Action Employer. Women, minority, and veteran candidates are encouraged to apply.

ENVIRONMENTAL SCIENCE

New England College invites applications for an environmental scientist at the ASSISTANT PROFESSOR level. Candidates should have a background in atmospheric chemistry and modeling of pollutants, and at least one degree in environmental science. Teaching responsibilities will include both introductory (including environmental) and advanced environmental science, including laboratories. The position will be available 1 July 1991. The college is a small institution with a commitment to and a strong tradition of excellence in teaching.

Send letter of application, résumé, and three references to: Dr. Laurence I. Taylor, Academic Dean, New England College, Keene, New Hampshire 03432–3293.

New England College especially encourages applications from women and minority candidates and is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, NEUROPHYSIOLOGY

A tenure-track position is available for an individual, with Ph.D., whose research in environmental/cellular neurobiology or regulation of excitatory tissues will complement a strong intercollege program in Neuronal Growth and Development. The successful candidate is expected to begin on site no later than spring 1992, teach system physiology or pharmacology, and establish an extramurally supported research program. Salary is negotiable, depending upon qualifications and experience. An appointment as M.D., if not currently held, can be obtained; an appropriate license will be required. The search is ongoing and will continue until a suitable candidate is identified. Application materials must include: curriculum vitae; a two page description of research and teaching experience or interests; three letters of reference; and three references.

Send application to: Dr. D. N. Ishii, Physiology Department, Colorado State University, Fort Collins, CO 80523. CSU is an Equal Opportunity/Affirmative Action Employer. Women and ethnic minorities are strongly encouraged to apply. E.O. Office: 314 Student Services Building.

NEW OPPORTUNITIES FOR MOLECULAR GENETICISTS

The Center for Human Genetics at Boston University School of Medicine now has two new positions for Ph.D. molecular geneticists at the ASSISTANT OR ASSOCIATE PROFESSOR rank. Established investigators preferred with expertise in gene mapping, cloning, in situ hybridization, sequencing, immunogenetics, or use of novel techniques applicable to complex genomes. Interaction with over 20 molecular biologist/geneticists in other departments and many more in Boston. Send curriculum vitae to: Aubrey Milunsky, M.D., D.Sc., Director, Center for Human Genetics, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118. BUSM is an Equal Opportunity/Affirmative Action Employer.

22 MARCH 1991

PERSONNEL PLACEMENT 1515
Positions Open

Forest Ecologist
Department of Forest Science
College of Agriculture and Life Sciences
Texas AM University (TAMU)

Assistant or Associate Professor of Forest Science.

The Department of Forest Science seeks to fill a position at the Assistant/Associate Professor level. Applications are invited to fill a tenure-track position beginning August 1991. The successful candidate will be expected to develop a research program in an area of forest science. Research areas may include silviculture, tree improvement, and forest ecology. Teaching responsibilities will include undergraduate and graduate courses in forest science. A Ph.D. degree is required. The successful candidate is expected to develop a productive research program and to participate in graduate and professional education. Salary commensurate with qualifications and experience. Application materials including a curriculum vitae, statement of research plans, and three letters of recommendation should be sent to Dr. J. G. McRae, Chair, Department of Forest Science, Texas AM University, College Station, TX 77843-2135. Telephone: 409-845-2547.

Positions Open

Human Anatomy

The expanding Biology Department at Gannon University is seeking a full-time, tenure-track position at the Assistant/Associate Professor level. Responsibilities include teaching an advanced course in human anatomy, histology, and/or embryology, and possibly neuroscience. Required qualifications include a Ph.D. in a related area, a medical degree, or equivalent, and an APhiE (American Board of Pathology). The successful candidate will be expected to develop an active research program and to participate in graduate and professional education. The salary range is $27,000-$30,000. For further information, contact Dr. H. W. Sheehan, Chair, Department of Biology, Gannon University, Erie, PA 16541.

NUTRITIONAL BIOCHEMIST

The Department of Food Science and Human Nutrition, University of Hawaii-Manoa invites applications for an 11-month, tenure-track ASSISTANT OR ASSOCIATE PROFESSOR. Requirements include a Ph.D. in nutritional biochemistry, immunology, or related field. For assistant professor, one or more years of postdoctoral experience required. For associate professor, all minimum requirements for assistant professor plus three years of postdoctoral experience at the assistant level, or equivalent. Also required is demonstrated research capability in cellular or molecular nutrition and evidence of teaching ability. Responsibilities include teaching graduate and undergraduate courses, advising students, and developing a competitively funded research program. For further information, send letter of application, curriculum vitae, three letters of recommendation, and a list of publications to: Dr. H. W. Sheehan, Chair, Department of Nutrition, University of Hawaii-Manoa, Honolulu, HI 96822.

Reproductive Biologist

A tenure-track Assistant Professorship is available for a reproductive biologist, with Ph.D., whose research interests complement those of faculty in the Animal Reproduction and Biotechnology Group. Responsibilities include academic teaching, and research and/or teaching experience at the graduate level required. Salary will be commensurate with level of experience and training. Interested parties should send curriculum vitae, and three letters of reference to: Dr. G. E. Seidel, Search Committee Chairman, Department of Physiology, Colorado State University, Fort Collins, CO 80523. CSU is an Equal Opportunity/Affirmative Action/Equal Employment Opportunity Employer. Women and ethnic minorities are strongly encouraged to apply. E.O. Office: 314 Student Services Building.

Assistant Professor of Clinical Pathology

Department of Pathology
Columbia University

Non-tenure-track position available immediately to join an already productive research group engaged in the function of the c-myc gene in the control of proliferation and differentiation. Candidates should have a M.D. or Ph.D. and interest and extensive experience in the field of gene regulation.

Please send a description of research interests, curriculum vitae, and names and telephone numbers of three references to: Dr. Riccardo Dalla-Favera, Division of Cellular and Molecular Biology, Department of Pathology, Columbia University, 630 West 168th Street, New York, NY 10032.

Microbiology/Immunology

The School of Podiatric Medicine at Barry University seeks applicants for ASSISTANT OR ASSOCIATE PROFESSOR of microbiology. Requirements: Ph.D. with postdoctoral experience in molecular biology, immunology; commitment to teaching podiatric medical students; preferred minimum: 5 years of full-time teaching experience. Responsibilities include lecture, laboratory, and student advising. Send résumé, transcripts, and three letters of recommendation to: C. A. D. Director, D.P.M., Barry University School of Podiatric Medicine, 11300 N.E. 2nd Avenue, Miami Shores, FL 33161.
EXECUTIVE DIRECTOR
Center for Process Analytical Chemistry
University of Washington

Candidates are sought for an appointment as Executive Director of the Center for Process Analytical Chemistry (CPAC) at the University of Washington. Applicants should have a broad knowledge of science and engineering and be highly qualified for independent research in some area of process analytical chemistry. A Ph.D. degree is an appropriate field is required (only exceptional relevant experience will substitute). Applicants must also show evidence of a solid background in an industrial research or plant environment, as well as extensive managerial experience. In addition, excellent writing and communication skills will be required.

Research at CPAC focuses on generic problems in four major areas: sensors/instrumentation, sampling, multivariate data analysis including spectral pattern recognition, and optimization/control/intelligence. The main thrust of the program is in the area of new types of sensors that can not only provide direct chemical information about the components of a chemical system, but furthermore, that are integrated with sophisticated data processing and intelligence capabilities to permit real-time process optimization, control, or other functions, such as crisis alerting, etc.

The Executive Director will have overall management and administrative responsibility for the Center. Functions and responsibilities include: chief CPAC representative to industry, government and university leadership; responsible for long-range planning, major facilities planning and acquisition, development and implementation of CPAC policies and procedures, and oversight of intellectual property issues.

The position will be open July 1, 1991. Applications (or nominations), including a curriculum vitae, statement of research interests, a letter highlighting the special skills and experience that you could contribute to the development and success of CPAC, and three letters of recommendation, should be sent to: Prof. Bruce R. Kowalski, Codirector, CPAC, BG-10, University of Washington, Seattle, WA 98195. (For a more detailed position description, please contact: John Shipman, (206) 888-2234.) E.O.E.

ASSOCIATE DIRECTOR
PRODUCT DEVELOPMENT

Molecular Biosystems, Inc. is a leading biomedical firm developing proprietary medical products that diagnose human disease. We seek an individual with at least seven years of pharmaceutical product development, formulation and analysis experience. Previous management of project coordination experience is also required. The position involves responsibility for directing and managing a scientific group in the development of medical diagnostic imaging agent products. A Ph.D. degree in a relevant scientific area is required. Molecular Biosystems, Inc., located in San Diego, California, offers an excellent salary and benefits package with an opportunity to make major impact on the future growth of the company as a key member of management. For consideration, please send your resume and compensation history to:

Molecular Biosystems, Inc.
Human Resources Department
10030 Barnes Canyon Road
San Diego, CA 92121

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National Institutes of Health
Public Health Service
Department of Health and Human Services

DIRECTOR
Division of Legislative Analysis

The National Institutes of Health (NIH) invites nominations and applications for the position of Director, Division of Legislative Analysis, Office of Science Policy and Legislation, Office of the Director. This is a Civil Service position in the Senior Executive Service (SES), with a salary ranging from the ES-1 to ES-4 pay level per annum ($87,000 to $100,500). A one year probationary period must be served by the individual selected if not currently in the Senior Executive Service.

The Director, Division of Legislative Analysis is responsible for providing executive leadership and management in the comprehensive and continuing analysis of Congressional activities affecting NIH, the development of new legislation to enable the agency to better perform its mission, and Congressional liaison matters.

For more information, contact Dr. Paul Thibault at (301) 496-2400. The following forms are required: Application for Federal Employment (SF-171) accompanied by a current curriculum vitae and bibliography. These must be submitted to:

Dr. Paul G. Thibault
National Institutes of Health
Office of the Director
Personnel Office
Building 31, Room 1C-27
9000 Rockville Pike
Bethesda, Maryland 20892

Applications must be received no later than April 9, 1991.

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, politics, marital status, physical or mental handicap, age, or membership or non-membership in an employee organization.
The Department of Biochemistry and Biophysics, University of South Florida College of Medicine is seeking candidates for the position of faculty. The department is committed to excellence in teaching and research. Applicants should be experienced in teaching and research, be committed to the cultivation of a diverse and inclusive academic environment, and have a record of scholarly achievement. The successful candidate will be expected to establish a competitive research program and to attract external funding. Applications are encouraged from candidates who can contribute to the diversity and excellence of the department.

Applications should include a letter of interest, a curriculum vitae, and names of three references. Applications should be sent to: Dr. J. O'C. Cunningham, Search Committee Chair, School of Medicine, University of South Florida College of Medicine, 1501 King High- way, Tampa, FL 33607. The review of applications will begin immediately.
The University of Minnesota Medical School invites applications and nominations for the Martin Lenz Harrison Endowed Chair. The Institute of Human Genetics and the Department of Pediatrics are seeking a highly qualified, internationally recognized, mammalian developmental molecular biologist, who will recruit and direct a group of investigators with interests in mammalian developmental biology. Individuals with interests in other areas of vertebrate developmental biology will also be considered. This position will be a tenured full Professor (M.D. and/or Ph.D.) in the Department of Pediatrics and the appropriate basic science department, with membership in the Institute of Human Genetics.

To support this program, substantial financial and space commitments are available. Laboratory space for the Chair and additional faculty will be in the Institute of Human Genetics. Presently, the research laboratories of 9 faculty members from 4 departments are located within the Institute. Areas of ongoing research include molecular immunology, molecular neurogenetics, oncogenesis, control of gene expression, and hematopoiesis.

Please send nominations and inquiries to:

Dr. Harry T. Orr
Chair, Search Committee
University of Minnesota
Institute of Human Genetics
Box 206 UMHCI
Harvard Street at East River Road
Minneapolis, MN 55455

The last date for receipt of applications is June 30, 1991.

The University of Minnesota is an equal opportunity educator and employer.

(2) Assistant Professorships — The Department of Veterinary Microbiology, College of Veterinary Medicine, University of Missouri-Columbia has 2 full-time tenure-track Assistant Professorships open immediately. The Department focuses on contemporary immunologic technology for controlling infectious diseases of veterinary, zoonotic, and comparative medical importance. The Department collaborates with campus researchers in molecular/cell biology, medicine, agriculture, and biological sciences.

Position 1 — Requires a Ph.D. immunologist. D.V.M. degree is preferred. The position will also involve development of a competitive research program in immunology and instruction of graduate and professional (D.V.M.) students.

Position 2 — Requires a Ph.D. microbiologist or parasitologist with special interest and experience in molecular immunology to participate in graduate teaching and interdisciplinary immunologic research. The successful candidate will be expected to establish a competitive research program and obtain extramural funding.

Applications will be reviewed beginning April 15, 1991, and will be accepted until suitable candidates are identified. Salaries negotiable.

Send curriculum vitae, names and addresses of 3 references, and a statement of professional goals to:

Dr. John N. Berg, Chair, Search Committee
Department of Veterinary Microbiology
104 Connaway Hall
University of Missouri-Columbia
Columbia, MO 65211
Phone: 314-882-6550

The University of Missouri is an affirmative action/equal opportunity employer/educator.
SENIOR COMPUTATIONAL BIOSCIENTIST

To organize and direct a computational biosciences laboratory at the Division of Computer Research and Technology (DCRT), in the campus setting of the National Institutes of Health (NIH). We are seeking an individual with proven abilities to coordinate active research in one or more of the following areas: protein structure analysis, protein folding, crystallography, 3- and 4-D NMR, molecular dynamics, protein and nucleic acid sequence analysis, genomics. Active collaboration with several NIH laboratories can provide a wide spectrum of facilities. State-of-the-art computer support is available including graphics workstations, mainframes, supercomputers and highly parallel processors. Must have an advanced degree or equivalent experience in molecular biology, computational chemistry or related field. Excellent interpersonal skills and writing ability are essential. Salary commensurate with qualifications and experience.

Send CV/Bibliography to:

Director, DCRT
National Institutes of Health
Bldg. 12A, Room 3033
9000 Rockville Pike
Bethesda, MD 20892

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Postdoctoral Fellow
Protein NMR

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company is seeking a Postdoctoral Fellow to join the NMR spectroscopy laboratory. The Fellow will develop and apply methods to solve the three dimensional structures of peptides.

The successful candidate will collaborate with scientists at PARKE-DAVIS interested in endothelin and amylin-related peptides. Applicants should have a Ph.D. in Chemistry, Biochemistry or a related field, with experience in the application of NMR methods to study peptide/protein structure.

Our modern facilities include a fully equipped AMX500, SGI and Sun workstations, and access to a 600 MHz NMR spectrometer located at the nearby University of Michigan. Appointment is for one year, renewable for a second year, and includes an attractive compensation and benefits package as well as relocation assistance.

Send CV and references in confidence to PARKE-DAVIS, Human Resources, Box PD0041, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment" "Equal Opportunity in Action"

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Microbial Physiology

An opening is available in the Microbial Physiology Department of the Infectious Disease Research Section for an individual to participate in the discovery of novel natural products of medical and agricultural importance. Candidates should have a diverse background in microbial physiology, genetics and biochemistry. Specific experience in microbial fermentations, the development of microbiological and biochemical assays, applications of laboratory robotics, and the use of computers for data management is highly desirable. This position requires a Ph.D. in Microbiology/Biochemistry with 3-5 years of postdegree experience. (Dept. MG)

Cardiovascular Research

The Lipid Regulation Group of the Cardiovascular Research Department has an opening for a Postdoctoral Scientist with a strong background in molecular genetics/biology and biochemistry to work on the molecular regulation of metabolism. As part of this effort you will clone, express and characterize receptors involved in the control of weight and blood glucose. Candidates for this position should possess a Ph.D. in Biochemistry or Cell Biology. (Dept. JD)

We are located at the Lederle Laboratories campus of American Cyanamid, a 580-acre campus-like setting in Rockland County, only 25 miles north of New York City. Salaries are very competitive and include comprehensive benefits. For consideration, send resume/cv with the names and telephone numbers of three references including the department code for the position of your choice to: Professional Employment Representative, Medical Research Division, Lederle Laboratories, Pearl River, NY 10965. An Equal Opportunity Employer M/F.

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Associate Director, Cell Biology

Direct the activities of three scientists conducting applied and basic research on intracellular protein trafficking, cell surface receptors and the mechanisms of cell-cell interactions. A PhD in Cell Biology and 7-10 yrs' practical experience studying the biology of cellular interactions plus prior management experience required.

Post Doctoral Fellow

In this 2-year appointment, work in conjunction with our colleagues at MIT to study the effects of tissue culture environmental parameters on resulting glycoforms. Perform tissue culture, purification and analyze recombinant glycoproteins. A PhD with a background in cell biology, carbohydrate analysis and glycoprotein synthesis is required to qualify for this unique opportunity.

Research Scientist

Responsible for initiating preclinical in-vitro and in-vivo immunological safety studies for our therapeutic products, and for developing assays to assess patient immune reactivity to these products. Requires a PhD and 2-3 yrs' experience in cellular immunology, immune complex clinical research, or animal hypersensitivity studies with at least 1 yr in assessing adverse immune reactions.

Research Associate

Responsible for generating polyclonal and monoclonal antibodies to therapeutic proteins. Involves maintenance and characterization of resultant hybridomas using immunological techniques, and purification and characterization of monoclonal antibodies. Requires a BS with 2-3 yrs' experience using tissue culture techniques.

Genzyme rewards success with an excellent compensation and benefits package, including 3 weeks' vacation, tuition reimbursement, a 401(k) plan with a company match, and extensive insurance coverages. Please forward your resume to: Human Resources, Genzyme Corporation, Dept. S322, One Mountain Road, Framingham, MA 10701. An equal opportunity employer.
MANAGER, EMISSIONS AND CONTROL STATIONARY SOURCE

National trade association seeks a professional to assume responsibilities in its Health, Industrial, and Planning Department. Position requires work with industry committees on issues dealing with Clean Air Act implementation, including analysis of proposed regulations and development and analysis of industry positions. Successful candidate will possess:

- Degree in science or engineering
- Experience with EPA and state rule-making, air permitting, and other control technology guidance development
- Excellent oral and written communication skills

Position offers competitive salary commensurate with experience and excellent benefits package. Please submit a resume and salary history to:

Human Resources Manager
P.O. Box 11777
Detroit, MI 48211

ASSOCIATE DIRECTOR UNIVERSITY OF NEBRASKA, LINCOLN BIOLOGICAL FIELD STATION

Seek associate director to coordinate all operations associated with the active summer teaching program of field-based courses and individual investigations. Permanent position requires master's degree in a biological science. Must have ability to supervise teaching activities and coordinate research/teaching programs. Excellent interpersonal skills essential. Microcomputer experience preferred. Submit letter of application, curriculum vitae, and three references (including name, address, and telephone) to: Search Committee, 348 Manter Hall, School of Biological Sciences, University of Nebraska—Lincoln, Lincoln, NE 68588-0318. Telephone: 402-472-2700. FAX: 402-472-2083. Application/Affirmative Action/Employer.

EVERGLADES NATIONAL PARK

The South Florida Research Center, a research and resource management organization within the Everglades, seeks an EDUCATION/PROGRAM MANAGER in plant ecology, wildlife ecology, and marine ecology. These positions are permanent, full-time research and resource management positions, which report to the research director. Each program manager will be responsible for directing a small staff of research project leaders, resource managers, and program managers. Positions with major responsibility for scientific research activity. Permanent position requires master's degree in a biological science. Must have ability to supervise teaching activities and coordinate research/teaching programs. Excellent interpersonal skills essential. Microcomputer experience preferred. Submit letter of application, curriculum vitae, and three references (including name, address, and telephone) to: Search Committee, 348 Manter Hall, School of Biological Sciences, University of Nebraska—Lincoln, Lincoln, NE 68588-0318. Telephone: 402-472-2700. FAX: 402-472-2083. Application/Affirmative Action/Employer.

CAREER SCIENTIST (TENURE-TRACK FACULTY). Position with primary appointment in the Department of Anesthesiology and possible joint appointment in a basic science department. Candidate should possess a Ph.D., M.D., or equivalent degree with post-doctoral or equivalent experience in research in an area that is relevant to extramural research funding. Primary research interests should be in the areas of molecular pharmacology, physiology, or biochemistry. Successful applicant will be expected to establish extramural research funding. This announcement was made in the June 1991 issue of the Journal of Biological Chemistry. Positions will be available upon successful completion of the search. Successful candidates will have demonstrated excellence in research and teaching and hold M.D. or Ph.D. degrees. Successful applicants will receive an attractive salary package and up to $100,000 for use of research funds. Applications must be submitted by 30 April 1991 (or until suitable candidate is found) to: Search Committee, 348 Manter Hall, School of Biological Sciences, University of Nebraska—Lincoln, Lincoln, NE 68588-0318. Telephone: 402-472-2700. FAX: 402-472-2083. Application/Affirmative Action/Employer.

FACULTY POSITIONS DEPARTMENT OF NEUROSCIENCE THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

Applications are invited for full-time, tenure-track faculty positions in the Department of Neurology. Successful candidate will possess a Ph.D. or M.D. degree and have a strong research program. Candidates are expected to contribute to the curriculum and to the research efforts of the department. Applications should be received by 18 May 1991 to: Search Committee, The Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. Application/Affirmative Action/Employer.

LECTURER IN BIOLOGY

Position available at Boston University Marine Program, Woods Hole, Mass. Successful candidates would have a Ph.D. in biology to conduct research and to provide instruction in sensory physiology. Successful candidate will possess strong background in sensory physiology. Excellent oral and written communication skills essential. Send curriculum vitae and names of three references to: Prabodh K. Gupta, M.D., Director, Course in Marine Biology and Cytometry Section F.6.007 Founders Pavilion University of Pennsylvania Medical Center Philadelphia, PA 19104-4283

The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

The University of Calgary RETINAL NEUROSCIENTISTS

The University of Calgary Faculty of Medicine Lions' Centre for Vision research invites applications for full-time academic positions from individuals with a research interest in the neurobiology of the vertebrate retina. Candidates should have a Ph.D. or M.D. with at least 2 years of postdoctoral or equivalent experience in research and fundable research in any of the following: developmental biology of the retina, electrophysiology of retinal cells with emphasis on retinal network function or information processing/chemistry of retinal ganglion and epithelial cells with emphasis on membrane receptors.

A renewable 5-year scholarship award will be available upon successful candidate.
SENIOR SCIENTIST
Molecular Biology/Immunology

Pharmacia P-L Biochemicals, Inc. is the international headquarters for research, production and marketing of molecular and cellular biology reagents for Pharmacia LKB Biotechnology. Our Research & Development Department has an immediate opening for a Senior Scientist.

The successful candidate will possess a PhD. in molecular biology, immunology, cell biology or a related field with experience in several of the following areas: gene cloning and expression, monoclonal antibody production and assay (ELISA and western blotting), protein purification or cell culture. The Scientist will be expected to maintain a program for the development of methods and products for life science research. Supervision of other scientific staff is expected, and strong interpersonal skills are required.

We offer a competitive salary and a company-paid benefit package. For consideration, send resume and salary requirements in confidence to:

Sandra Stetter
Manager, Human Resources
Pharmacia P-L Biochemicals, Inc.
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Pharmacia
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Scientists

Genentech, Inc. is the leading biotechnology research and pharmaceutical production company with 3 marketed products. To continue our success, we are seeking Scientists and Senior Scientists for the following positions in our Cell Biology department.

Cell Biology/Immunology

Using your broad knowledge of cell biology/immunology, you must be able to conduct independent research as well as work collaboratively. This requires a Ph.D. with at least 3 years of experience developing in vitro and in vivo models to examine the biology of new therapeutics.

Cell Analysis

For this position, qualified candidates must have at least 5 years’ experience managing a Cell Analysis laboratory which utilizes flow cytometry/image analysis and both new drug discovery and basic cell biology. The ideal candidate will have extensive experience in analytical cytology as well as a broad knowledge of molecular and cell biology.

Biochemical Pharmacology

In this position, you must have extensive experience in devising and implementing strategies suitable for high capacity screening and a broad knowledge of developing bioassays, immunoassays and receptor binding assays. A Ph.D. with at least five years’ experience in biochemical pharmacology.

All of these positions require exceptional communication and managerial skills.

Our progressive company offers an exceptional compensation and benefits package and the opportunity to make a significant contribution to our organization. For immediate consideration, please send your resume, indicating position of interest, to Genentech, Inc., Human Resources Dept. YDS, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal opportunity employment.
Tasks: * Running a research project concerning characterization of primary HIV isolates from cells and plasma of individuals participating in natural history studies and antiviral drug trials. * Participating in research projects concerning the pathogenesis of HIV in vivo and the role of the humoral immune response in modulating the course of HIV infection.

Requirements: * PhD or equivalent in Biology/Immunology * Experience in cell culture of lymphocytes, monocytes, etc. * Preferably experience in Virology, in particular animal retroviruses.

Post-doc molecular biologist/molecular geneticist
for a period of approximately 3 years

Tasks: * Running a research project concerning the development and evaluation of molecular techniques allowing to study the epidemiology of HIV strains circulating in the Amsterdam cohort-studies. * Participating in research programs concerning the worldwide spread of HIV strains, virus typing efforts and role of HIV variations in the pathogenesis of HIV.

Requirements: * PhD or equivalent in Molecular Biology/Molecular Genetics * Experience in RNA and DNA technology, sequencing and PCR.

Post-doc molecular biologist/immunologist
for a period of approximately 3 years

Tasks: * Running a research project concerning the characterization of Dutch, European and African HIV-1 strains by using serological techniques. Production of monoclonals by genetic engineering.

Requirements: * PhD or equivalent in Molecular Biology/Immunology * Experience in serological techniques, rDNA techniques * Preferably experience in Virology.

"For more information on all positions: Prof Dr. Jaap Goudsmit, phone (31-20) 5664853"

Closing date: April 12, 1991.
Applications are invited for the established Chair of Medicine in the Royal Postgraduate Medical School, in succession to Professor Sir Colin Dollery who has been appointed Dean of the School from 1 October 1991. The person appointed, in addition to acting as Head of the academic Department of Medicine, will be Director of Service for Medicine to the Hammersmith and Queen Charlotte’s Special Health Authority.

Informal enquiries about this post should be addressed to the present Dean of the Royal Postgraduate Medical School, Professor D N S Kerr (telephone 081 740 3200), from whom further particulars are available. Letters of application should be accompanied by a full curriculum vitae and an outline of the applicant’s research proposals (ten copies) together with the names and addresses of three referees, and should be sent to the Deputy Secretary, Royal Postgraduate Medical School, Du Cane Road, London W12 ONN. The closing date for the receipt of applications is 19 April 1991.

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Social Science Research Council

Human Dimensions of Global Environmental Change

The SSRC anticipates adding a position as program officer for the Committee for Research on Global Environmental Change. This Committee focuses on the human dimensions of long-term environmental changes that occur at the level of continents or larger. Training and research on the environment are desirable but not mandatory in the applicant’s record. More importantly, this person should be a social scientist trained at the doctorate level for research in economics, geography, political science, sociology, or related fields; international in orientation and experience; capable of learning this interdisciplinary subject matter; and able to work with both social and natural scientists. We would also expect this person to assist the Council in collaborative program development, e.g. in health, and epidemiology, peace and security, development or resource economics, quantitative modeling and methodology, or other areas.

This full-time position involves preparing and negotiating grant proposals for expansion of this program; assisting in the design of research programs and research consortia; planning seminars, workshops, and conferences; administering possible fellowship and grant competitions; supervising support staff; contributing to the Council’s overall program; and maintaining relationships with researchers and academic and research institutions throughout the world.

Applicants must hold the Ph.D. in a relevant field. Writing skills are essential. Administrative experience and demonstrated fund-raising ability are desirable. The Council seeks applications from scholars with several years of teaching, research, and/or administrative experience, although it may also consider recent recipients of the Ph.D. Salaries are competitive with those at U.S. universities.

The person appointed should be able to take up the position on or before September 1, 1991.

To apply, before June 1, 1991 send (a) a letter of application, (b) a curriculum vitae, and (c) three letters of reference to:

Global Change Search
Social Science Research Council
606 Third Avenue
New York, NY 10018

An Equal Opportunity Employer
The Animal and Plant Health Inspection Service (APHIS), an agency of the U.S. Department of Agriculture (USDA), has several open positions in the disciplines listed below. These individuals will participate in a team approach to evaluate environmental risks associated with program activities, including all aspects of agricultural pests and disease management and control. Familiarity with the principles of environmental risk analysis using the procedures of NEPA and ESA are desirable, but not required.

Disciplines being sought: agronomist, ecologist, entomologist, plant pathologist, plant physiologist, toxicologist, and biological engineer.

All positions are with the Environmental Documentation Unit at APHIS headquarters in Hyattsville, Maryland, and are available full-time, 2-year term appointments, with potential for extensions or conversion to permanency. Salary range is $37,294 to $57,560, depending on qualifications. Qualifications will be determined using a combination of education and experience. Excellent communication skills are desired.

To obtain copies of the vacancy announcements, contact: Environmental Documentation at 301-436-8565, or at the following address: USDA, APHIS, BBEP, ED Federal, Room 828 6505 Belcrest Road Hyattsville, MD 20782

The filing period for these positions closes 15 April 1991, and applications must be postmarked no later than this date.

The federal government is an Equal Opportunity Employer.

MOLLEcular EVOLUTIONARY BIOLOGIST

PRINCETON UNIVERSITY
DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY

The Department of Ecology and Evolutionary Biology at Princeton University plans to appoint a molecular evolutionary biologist. Rank is open. The appointment can begin any time between July 1 and September 1, 1992. The closing date for applications is 15 April 1991.

Applicants should send curriculum vitae and arrange for three letters of reference to be sent to: Dr. Henry S. Horn, Search Committee, Department of Ecology and Evolutionary Biology, Guyot Hall, Princeton University, Princeton, NJ 08544-1003.

An Equal Opportunity/Affirmative Action Employer.

Applications are invited for PRODUCT SPECIALIST position. Candidate will have a molecular biology background in gene targeting. Individual should be familiar with DNA sequencing, blotting, PCR techniques, and some computer experience. Will initially work in the laboratory, but may be required to function independently with some travel. Send résumé to: Mr. Michael Caracozza, Applied Imaging Corp., Robinson Plaza 3, Suite 140, Pittsburgh, PA 15222.

POSTDOCTORAL POSITION

Available immediately to study molecular mechanisms involved in cell transformation by growth factors and oncogenes. Research is focused on characterization of the Jun oncoprotein with respect to structural and functional properties required for transformation as well as identification and characterization of specific Jun-regulated target genes which may be involved in oncogenesis. Applicants should have experience in molecular biology and cell culture techniques. If interested, contact: Dr. Timothy Bos, Department of Microbiology and Immunology, Eastern Virginia Medical School (EMVS), P.O. Box 1980, Norfolk, VA 23501. EMVS is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

MNOLAR BIOLOGY. The Laboratory of Receptor Biology has an open position to study the molecular biology of prostatic cancer. Experience with cell biology, recombinant DNA technology, and growth factors is preferred. Under this position, the investigator will study growth factors and inhibitors, and induction of differentiation. Interested candidates should send their curriculum vitae with three references to: Dr. John Mendelsohn, Department of Medicine, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. Telephone: 212-639-5808. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

VETERINARY MEDICAL OFFICER/MICROBIOLOGIST, National Animal Disease Center, Ames, IA. This position requires an M.S. or Ph.D. in medical veterinary microbiology or microbiologist to join the paratuberculosis project in the Leptospirosis/Mycobacteriosis Research Unit. Investigations will be planned, and conducted to characterize the protein and antigen components of Mycobacterium paratuberculosis, the causative agent of Johne’s disease of cattle. Genes coding for protein antigens will be cloned and characterized. Candidate must have knowledge or experience in bacteriology and molecular biology. Ph.D. is desirable. Must be a U.S. citizen. Salary range $31,116 to $57,650. For information on the research program and/or position, contact: Dr. Carole Bolin, 515-239-8325. Applications must be postmarked by 19 April 1991. Mailing address: USDA, Agricultural Research Service Personnel Operations Branch, Northern Science Center, Building 630, Suite H-227, Beltsville, MD 20705. An Equal Opportunity Employer.

POSTDOCTORAL POSITION

IN MOLECULAR BIOLOGY. Available immediately to develop program-specific molecular monoclonal antibodies. Experience in cloning, sequencing, and mammalian cell expression required, working knowledge of immunogenetics desirable. Send curriculum vitae to: Dr. Roberto Ceriani, John Muir Cancer and Aging Research Institute, 2055 North Broadway, Walnut Creek, CA 94596. An Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available immediately to study the regulation of signal transduction in cardiovascular system and gene expression in hypertension [Biochem. Pharmacol. 37, 3017 (1989); J. Biol. Chem. 264, 9491 (1989); Hypertension 13, 789 (1989); J. Biol. Chem. 265, 8560 (1990)]. Experience in receptor and/or molecular biochemistry or pharmacology preferred. To apply, please send curriculum vitae and three letters of reference to: Dr. Madhu B. Anand-DRISHTI, Department of Physiology, University of Montreal, P.O. Box 6128, Station A, Montreal, Quebec H3C 3J7, Canada.

CANCER RESEARCH POSITIONS AVAILABLE

POSTDOCTORAL through ASSISTANT PROFESSOR. Experience with oncogenes, lipoprotein expression factors, lipid-derived secondary messengers, and protein kinase C in the control of cell growth and differentiation. Experience with cell culture and/or biochemistry required. For further information contact: Dr. Larry W. Daniel, Department of Biochemistry, Wake Forest University Medical Center, Winston-Salem, NC 27103. Telephone: 919-748-3623 or FAX: 919-748-7671. Affirmative Action/Equal Opportunity Employer.

TWO POSTDOCTORAL POSITIONS AVAILABLE

Available immediately for a new NIH project to study mechanisms of F2 receptor-mediated mucin release or regulation of mucin gene expression in cultured cells. Experience in protein biochemistry or molecular biology desired. Send a résumé and three references to: K. C. Kim, Ph.D., Department of Pharmacology and Toxicology, School of Pharmacy, University of Maryland at Balti-more, 20 North Pine Street, Baltimore, MD 21201.

POSTDOCTORAL POSITION

Available immediately in the Laboratory of Dr. Peter G. Beidler to study the role of insulin regulation of neuroendocrine gene expression in situ. Experience with molecular biology and/or neuroendocrine techniques is essential. Submit curriculum vitae and names of three references to: Dr. Dennis G. Baskin, Division of Endocrinology and Metabolism, Room 5401B, Mail Stop 151, VA Medical Center, 1600 South Columbus Way, Seattle, WA 98108. Telephone: 206-764-2138. FAX: 206-764-2598. U.S. citizenship required. Equal Opportunity Employer. Mail stop 151.

POSTDOCTORAL POSITIONS.

Regeneron seeks to apply recent advances in the understanding of neuronal growth and regeneration to the development of novel therapeutic products for degenerative and traumatic neurological disorders. Key projects focus on the discovery of novel neurotrophic growth factors and their receptors, and on the assessment of the biological roles and therapeutic potentials of such factors. Regeneron offers an exciting, collegial environment in which state-of-the-art skills in molecular and cellular biology are brought to bear on outstanding problems in neurobiology and medicine. Research positions for Ph.D. scientists are currently available in the following areas:  

Eukaryotic Gene Expression with relevant research experience, preferably in an industrial setting. The work involves the use of existing vectors for the expression of recombinant genes in mammalian and insect cells, the development of novel vectors, and the study of major factors that affect gene expression, such as transcriptional and translational control and cell trafficking.

Protein Purification/Process Development with experience on purification of recombinant proteins, preferably in an industrial setting. The work involves the purification and study of recombinant proteins. Experience with additional aspects of Process Development and/or Production is desirable.

Membrane Protein/Receptor Biochemistry with postdoctoral experience. Ongoing studies focus on the identification, isolation and characterization of receptors and membrane proteins from natural and recombinant sources, and the signal transduction pathways activated by these receptors.

Molecular Neurobiology with specialized skills in recombinant DNA technology, as well as an interest in applying those skills to the discovery and characterization of novel neurotrophic factors, receptors and signal transduction pathways.

Regeneron’s modern facility offers suburban living, and ready access to the cultural and business centers of New York City. Please send your resume indicating the relevant position, in confidence, to: Ms. Carol Deaken, Regeneron, 777 Old Saw Mill River Rd., Tarrytown, NY 10591-6707

Get your research into the hands of those who need it most.

The ultimate goal in pharmaceutical research is realized when a treatment reaches the patient. At Syntex, we’ve never lost sight of that goal. That’s why we’re committed to transforming basic research into clinical reality. The result is products in diverse therapeutic categories, including anti-viral, cardiovascular, and analgesic. And nearly 50 new Syntex compounds are currently in development.

We’re acutely aware that therapeutic breakthroughs start with an investment in research, and Syntex has spent $270 million on research and development of new drugs and medical systems in 1990. At 18% of sales, this is among the highest in the industry.

Our dedication to research creates an ideal environment for talented and motivated individuals. If you’d like to explore employment opportunities at Syntex, contact us about the following.

Inflammation Biologist

Direct drug discovery projects in inflammation research in the areas of phospholipases and eicosanoid metabolism, kinin receptors and tissue proteases. A PhD in Biochemistry or related field, plus at least 6 years of directly applicable scientific experience which has included some supervision of personnel.

Biochemical Pharmacologist

Provide expertise in radioligand binding technology, computation of data and receptor biochemistry. Experience in neurotransmitter release and other biochemical/functional assays in brain slices and cultured systems essential. Requires a PhD in Neuropharmacology or Neuroscience with at least 2 years of postdoctoral experience.

Neurochemist/Pharmacologist

Responsible for conducting basic research to support the pharmacological experimentation for the neuronal and other growth factors. Experience with neurodegenerative and regenerative disease models both animal models in vivo and in tissue culture systems. Requires a PhD in Neurochemistry with at least 2 years of postdoctoral experience.

Syntex, located on the San Francisco Peninsula, offers a competitive compensation and relocation package which includes an incentive bonus plan, an on-site health club and childcare facility. For immediate consideration, please send your resume to: Syntex, Professional Staffing, Dept. KH, 3401 Hillview Avenue, Palo Alto, CA 94303. We are an equal opportunity employer.
The Cardiovascular Diseases Research group of the DuPont Merck Pharmaceutical Company is seeking a talented Cardiovascular Pharmacologist/Physiologist interested in new drug discovery and development. A candidate for this important new position must hold a PhD Degree in Cardiovascular, Renal or Pulmonary Pharmacology or Physiology and have 3-5 years of post doctoral in vivo laboratory research experience. Excellent verbal and written communications skills are required.

The successful candidate will design and staff a new laboratory to evaluate the cardiovascular, pulmonary and renal effects of potential clinical candidates. This individual will interact directly with the multi-disciplinary discovery teams and will prepare the necessary IND/NDA documentation. This highly visible position will seek to interface the discovery and development aspects of new drug research while providing an opportunity for independent research.

The Du Pont Merck Pharmaceutical Company research laboratories are located near Wilmington, Delaware. Our modern research facilities and large interdisciplinary research staff provide a stimulating environment. The mid-Atlantic location offers an attractive life-style with easy access to a wide range of academic, cultural and recreational activities.
NATIONAL INSTITUTES OF HEALTH
CELLULAR AND MOLECULAR BIOLOGIST IN
VASCULAR-IMMUNE SYSTEMS AND HIV-1 GENE REGULATION

The Laboratory of Tumor Cell Biology of the Division of Cancer Etiology, National Cancer Institute is accepting applications for a permanent position for a medical doctor with research experience. The position has a salary range of $54,694 - $67,996.

The successful candidate will be expected to:
1. Conduct original research in the area of AIDS-associated malignancies (Kaposi's Sarcoma and B cell lymphoma) and HIV-1 gene regulation with emphasis on the investigation of the mechanism of action of HIV-1 regulatory gene products and cytokines on vascular cells and immune cells, using techniques of cellular and molecular biology.
2. Serve as Project Officer for extramural contract(s) to test the effectiveness of the use of antisense compounds in blocking the action of HIV-1 regulatory genes and cytokine genes.
3. Provide expert consultation to the Program in matters involving the study of AIDS-associated Kaposi's sarcoma, B cell lymphoma and HIV-1 regulatory genes.

Candidates with the following qualifications will be given preference:
1. M.D. (M.D. and Ph.D. are preferred) with background in immunology or other subject where training was focused on AIDS and AIDS-related malignancies.
2. Postdoctoral research experience in HIV-1 gene regulation and the interaction of cytokines with vascular and immune systems.
3. Strong interest in developing a research program which utilizes techniques of cellular and molecular biology to impact the areas of the role of retroviruses, particularly HIV-1, in the pathogenesis of tumors.
5. Ability to communicate effectively both orally and in writing.
6. Relevant publications in related scientific journals.

Applicant must be found to be eligible on a Civil Service Register. If interested, please send a curriculum vitae by April 15, 1991 to:

Ms. Patricia Stephenson, AO, BCP
National Institutes of Health
Building 37, Room 1A07
9000 Rockville Pike
Bethesda, MD 20892

U.S. Citizenship Required
NIH is an Equal Opportunity Employer

RESEARCH SCIENTISTS

Amgen is an innovative leader in the discovery, development and marketing of human therapeutics through applications of biotechnology. As a result of our continued commitment to research, we have immediate opportunities for Research Scientists in our Pharmaceuticals and Drug Delivery Program:

SYNTHETIC MEDICINAL CHEMISTRY
Dept. #579
This individual will participate in the syntheses and characterization of novel protein conjugates and cell permeation enhancing molecules. The interaction of these agents with membrane components and their cellular processing is also an integral part of this research effort.

Candidates must have a Ph.D. in Medicinal, Organic or synthetic Bio-organic Chemistry and experience in the synthesis of peptide and protein conjugates. A background in analytical methods development is desirable.

PROTEIN PHARMACEUTICS AND DELIVERY
Dept. #580
The successful candidate will be responsible for the design and evaluation of novel delivery systems intended for noninvasive administration of therapeutic proteins. Among the various routes to be investigated, nasal, pulmonary and oral are the most prominent. Mechanistic evaluation of transport and permeation enhancement processes as well as inhibition of specific proteolytic degradation steps will be the primary focus of this research group.

Candidates should have a Ph.D. in Pharmaceutics, Pharmacokinetics or Pharmacology and experience in drug absorption, distribution and metabolism studies. A background in analytical methods development is desirable.

Amgen offers a stimulating and challenging environment on the leading edge of biotechnology as well as an excellent compensation and benefits package, including equity offerings. If you have the necessary skills and qualifications and would like to be a part of an organization that places a high priority on its human resources, please send a resume, in confidence, to:

AMGEN, INC.
Recruitment, Dept. # (please specify)
Amgen Center
Thousand Oaks
CA 91320-1789

Equal Opportunity Employer
**POSITIONS OPEN**

**TWO POSTDOCTORAL OR RESEARCH ASSOCIATE POSITIONS.** In the areas of cell biology and cell physiology. One is for studies on regulation of cell cycle, especially the role of intracellular Ca²⁺. The other is for studies on functions of astrocytes and their role in CNS pathologies. Send curriculum vitae and three letters of recommendation to: Dr. Eric Gruneisen, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati College of Medicine, P.O. Box 2199, Cincinnati, OH 45267-0524. An Equal Opportunity Employer.

**LYME DISEASE: TWO POSTDOCTORAL ECологISTS POSITIONS.** For 1-3 year-integrated management of Lyme disease hosts. Requires ability to learn and use wide range of organisms and techniques and to interact with landowners and Lyme victims. Study sites include barrier beach and large island nature preserve. Send curriculum vitae with addresses of three references and letter explaining qualifications to: F. Dooley, Seatrack Foundation, Inc., Box 31, Jiptu, NY 11751.

**POSTDOCTORAL POSITION**

Postdoctoral position in molecular neurobiology to study the development and regulation of inhibitory neurotransmitter systems in Drosophila. Experience in molecular biology, immunocytochemistry, and/or Drosophila genetics. This NIH-funded position begins in the fall of 1991. Submit curriculum vitae and names of three references to: Dr. F. Rob Jackson, c/o Personnel Office, Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01548. An Equal Opportunity Employer, M/F/H.

**SENIOR RESEARCH FELLOW OR POSTDOCTORAL FELLOW.** To investigate pharmacology, mechanisms of dependence liability and abuse potential of haloperidol and PCP-like compounds in the rat employing methods in psychopharmacology, computer spectral analysis of EEG, and drug self-administration. Ph.D. in pharmacology, experimental or biochemistry required. Position and salary commensurate with qualifications. Send curriculum vitae, reprints, and references to: J. Edward Moreton, Ph.D., Professor, Department Pharmacology and Toxicology, University of Maryland School of Pharmacy, Baltimore, MD 21201. Affirmative Action/Equal Opportunity Employer, M/F/H.

**NIH TRAINING GRANT POSTDOCTORAL TRAINEES in cardiovascualar bioengineering, biophysics, and drug metabolism.** Postdoctoral training in molecular studies from molecular-cellular to organ-system levels. U.S. citizen or permanent resident with Ph.D., M.D., or equivalent degree. Five postdoctoral trainees and five NIH-funded independent investigators are encouraged to apply. Send curriculum vitae and three letter references by 15 May 1991 to: Dr. Shu Chien, Department AMES-Bioengineering, University of California, San Diego, La Jolla, CA 92039-0412. University of California is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION.** Available immediately to work towards the development of cancer "vaccine" using defined tumor-associated antigens. The effects of these antigens on cellular and humoral immune responses are being examined in animal models. Candidates will be expected to provide expertise in T cell cloning and other cell-based and animal analyses. Candidates will be expected to provide expertise in T cell cloning and other cell-based and animal analyses. Candidates will be expected to provide expertise in T cell cloning and other cell-based and animal analyses. Candidates will be expected to provide expertise in T cell cloning and other cell-based and animal analyses. Interested applicants should contact: Mrs. Lindsey Johnson, 3611 La Jolla Village Drive, La Jolla, CA 92037. An Equal Opportunity Employer, M/F/H.

**TRANSPLANTATION IMMUNOLOGY**

The Transplant and Immunogenetics Laboratory at Oregon Health Sciences University is recruiting a recent graduate of a Ph.D. program in experimental and/or clinical immunology. This laboratory at Oregon Health Sciences University is recruiting a recent graduate of a Ph.D. program in experimental and/or clinical immunology. This laboratory at Oregon Health Sciences University is recruiting a recent graduate of a Ph.D. program in experimental and/or clinical immunology. This laboratory at Oregon Health Sciences University is recruiting a recent graduate of a Ph.D. program in experimental and/or clinical immunology. This laboratory is recruiting a recent graduate of a Ph.D. program in experimental and/or clinical immunology. This laboratory is recruiting a recent graduate of a Ph.D. program in experimental and/or clinical immunology. These students are currently interested in understanding the roles of transplantation antigens, cell-to-cell interactions, and molecular recognition in the development of acute and chronic rejection responses in animal models. Interested applicants should contact: Dr. J. Norman, M.D., Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201.
THE U.S. DEPARTMENT OF ENERGY
SPONSORS

GLOBAL CHANGE
DISTINGUISHED
POSTDOCTORAL FELLOWSHIPS

Research opportunities in technical areas related to the interdisciplinary science elements of global change: climate and hydrologic systems, biogeochemical dynamics, ecological systems and dynamics, Earth system history, human interactions, solid Earth processes, and solar influences.

- U.S. citizens and permanent resident aliens
- Doctoral degree within last three years
- Tenable at various university and federal laboratories, including those of DOE & NASA
- Stipends: $35,000
- Deadline: May 1, 1991

For application materials contact:
Global Change Postdoctoral Fellowships
Science/Engineering Education Division
Oak Ridge Associated Universities
P.O. Box 117
Oak Ridge, TN 37831-0117
(615) 576-4805

RESEARCH OPPORTUNITIES IN BIOTECHNOLOGY

The Department of Biotechnology research at Pioneer Hi-Bred International, Inc. is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities, and a highly cooperative research environment. Successful candidates will be expected to interact extensively with ongoing programs in transformation, gene expression, gene isolation or RFLP programs.

PROJECT LEADER ALFALFA TRANSFORMATION — This permanent staff position will be responsible for developing transformation technology appropriate to alfalfa and for incorporation and evaluation of agronomic genes into alfalfa. Collaboration with other laboratories in the Transformation Group and the Alfalfa Breeding Department is expected. This research area is well supported with complementary expertise in vector construction and DNA/protein analysis. A Ph.D. or equivalent in cell or molecular biology, or a related field is required with an additional 1-2 years of relevant research experience. A good working knowledge of cell and molecular biology is required as well as demonstrated research accomplishment in previous positions.

RESEARCH ASSOCIATE ALFALFA TRANSFORMATION — The Alfalfa Transformation Research Associate will be an integral part of the alfalfa transformation effort. The successful applicant will be expected to perform transient and stable transformation experiments in alfalfa, develop technology as necessary to achieve efficient transformation of genes important to alfalfa breeding, and actively support field tests of transgenic alfalfa. Active collaboration with others in the Transformation Group, Biotechnology Research and Alfalfa Departments is expected. A MS or BS degree or equivalent in appropriate science area plus 1-2 years laboratory experience, preferably with genetic transformation in dicots required.

Pioneer Hi-Bred International, Inc. is an Equal Opportunity/Affirmative Action Employer. Send resume including the names of three references and the position for which you are applying to:

PIONEER HI-BRED INTERNATIONAL, INC.
Plant Breeding Division
Department of Biotechnology Research
Attn: Jo Ann Jorgensen
7300 N.W. 62nd Avenue • P.O. Box 38
Johnston, Iowa 50131

SCIENTISTS
(Senior Level)

The Division of AIDS of the National Institute of Allergy & Infectious Diseases is seeking senior level scientists in VIROLOGY and PHARMA COLOGY for the Clinical Sciences Section of its Treatment Research Program (TRP).

The Treatment Research Program plans and directs a major extramural research program that examines and evaluates potential therapeutic interventions for HIV disease and its related conditions in clinical trials. The Clinical Sciences Section functions as the primary scientific resource for the TRP, providing comprehensive guidance and expert leadership in immunology, virology and pharmacology by defining the clinical research agendas of the Immunology, Virology, and Pharmacology Committees of the AIDS Clinical Trials Group, developing and initiating innovative extramural research to support the clinical trials, providing direction and oversight for the quality assurance of immunologic, virologic and pharmacologic study parameters, and serving as scientific liaison with academic and industry-based investigators.

Candidates must have a PhD, with postdoctoral experience in biomedical research and direct experience using a wide variety of virologic or pharmacologic assays, data analysis techniques, knowledge of HIV disease and its associated opportunistic infections and malignancies, and research project administration. U.S. citizenship required. Please send a curriculum vitae to:

Dr. Jon Kagen
6003 Executive Boulevard
Room Z12N
Rockville, MD 20892
(301) 496-0700

NIH is an Equal Opportunity Employer

Toxicologist/Physiologist

Synergen, Inc., a growing protein-based biopharmaceutical company in Boulder, Colorado, seeks a toxicologist with broad knowledge of pharmacology and physiology. This position will be responsible for setting up animal models to test preclinical efficacy of cytokines, binding proteins, and neurotransmitters. This position will also be involved with writing protocols and monitoring and interpreting contracted toxicology studies. Requirements include training in physiology and toxicology, firsthand experience in animal toxicology studies and in other in vivo rodent experimentation. Educational requirements are a Ph.D. or DVM/Ph. D. and post doc or 2-3 years' industry experience. Synergen offers competitive salaries, generous benefits and the financial stability required for future development. Please send a CV or resume to: Director of Recruitment, Box TP, 1885 33rd Street, Boulder, CO 80301.

Synergen is an Equal Opportunity Employer.
POST DOCTORAL FELLOWSHIPS

The University of Missouri-Kansas City, the University of Kansas and Marion Merrell Dow Foundation have established a Scientific Education Partnership dedicated to developing a regional center of excellence in modern biological and biomedical research related to diseases and treatment of the aging population.

A key element of the Partnership is the awarding of Post Doctoral Fellowships in basic research as follows:

- Molecular immunobiology
- Protein structure and function
- Neuroscience
- Molecular genetics
- Molecular pharmacology
- Developmental molecular biology

Individuals with background and interest in areas of basic science identified above are encouraged to apply.

Appointments will be for 2 years at a stipend of $30,000 (year 1) and $35,000 (year 2). The deadline for applications is May 1, 1991.

Applicants should send a resume, three (3) letters of recommendation and a statement of research interest/ career goals to:

Anthony J. Hancock, PhD Director, Scientific Partnerships Marion Merrell Dow Inc. P.O. Box 8480 Kansas City, MO 64114-0480

MARION MERRELL DOW FOUNDATION THE UNIVERSITY OF KANSAS UNIVERSITY OF MISSOURI-KANSAS CITY

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATES

ARS is seeking applicants for two postdoctoral research associate positions at the Regional Poultry Research Laboratory, East Lansing, Michigan, in areas of: (1) developing transfected/transgenic chickens expressing MHC and other immunogenic genes; and (2) characterization and Marek's disease virus genes. A Ph.D. within the past 3 years in molecular biology or related disciplines is required. Temporary appointments, not to exceed 2 years; benefits available. Salary commensurate with experience ($11,116 to $12,994). Please send curriculum vitae (SF-171) and names of three references to: Dr. Larry Bacon (for position 1) and to: Dr. Lucy Lee (for position 2), USDA/ARS, Regional Poultry Research Laboratory, 3606 East Mount Hope Road, East Lansing, MI 48823 or call: 517-337-6828. For application materials, please call: A. Hegarty, 301-344-1542. Applications must be received by 30 June 1991.

ARS is an Equal Opportunity Employer.

CELL ANALYSIS SPECIALIST

The Cell Analysis Facility, Department of Immunology, University of Washington, has an immediate opening for a technical specialist in flow cytometry/image analysis. Responsibilities include the operation and maintenance of a dual-laser FACStar Plus, FACSCan and fluorescence microscope. The successful candidate will also participate in the development of new methods and instrumentation for cell analysis. A bachelor's degree is required. Experience in flow cytometry is highly desirable. Training in the physical sciences and experience with computers (MS-DOS and UNIX) are essential. Send resume including recent experience, long-term goals, and references by 8 April 1991 to: David M. Coder, Director, Cell Analysis Facility, Department of Immunology, I-264 Health Sciences Building SL-65, University of Washington, Seattle, WA 98195. An official application will be forwarded to each applicant. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ENGINEER/ SCIENTIST ASSOCIATE IV

The Department of Petroleum Engineering at The University of Texas at Austin is seeking an experienced NMR imaging specialist to run an NMR imaging laboratory for core analysis and other applications. Position requires a doctoral degree in engineering, physics, or chemistry. Competitive salary should be expected in the use of nuclear magnetic resonance (NMR) spectroscopy and imaging systems. A thorough familiarity with modern FT-NMR, specialized imaging techniques and experience in the design and implementation of new NMR experiments are preferred. Duties will include supervising facilities of the in-house SIS 85/10 (2 tesla, 85 MHz, 31-cm horizontal bore) imaging spectrometer, training other users, running specialized experiments, consulting with users in experimental design and interpretation, overseeing maintenance, and collaborating with faculty members in NMR imaging research. Monthly salary is $27,292 or more based on qualifications. Submit CV, letter of intent, and three letters of recommendation to: Dr. Ekwere J. Peters, Petroleum Engineering, The University of Texas at Austin, Austin, TX 78712-1224. FAX: 512-471-9605. The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION

Available immediately to study electrophysiology and pharmacology of axon-Schwann cell interactions in both native and artificial neuronal systems. Successful candidate must have a Ph.D., M.D., or equivalent and strong background in microelectrode techniques. Preference given to those with whole-cell patch-clamp experience. Send curriculum vitae and names of three references to: Edward M. Lieberman, Ph.D., Department of Physiology, School of Medicine, East Carolina University, Greenville, NC 27834.

An Equal Opportunity/Affirmative Action Employer.

MEDICAL TECHNOLOGIST. For medical laboratory in Cincinnati, Ohio. Evaluate and evaluate laboratory technology tests including bacteriology, mycobacteria. Performs chemical, microscopic, serologic, hematologic, immunologic, and microbiologic tests and procedures. Salary: $20,000-$25,000. Submit resume and cover letter to: J. Davies, J.O. #109, 1683, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP

The James A. Baker Institute for Animal Health at Cornell University offers NIH-sponsored research fellowships for individuals holding a D.V.M., M.D., or equivalent degree, who are U.S. citizens or permanent residents. Opportunities for research training leading to the Ph.D. degree are available in infectious diseases, immunology, virology, arthritis, and reproductive biology. Fellowship awards range from $17,090 to $31,500, depending on experience, and travel allowance, plus tuition and fees. Successful candidates will be awarded a fellowship for up to four years. Submit curriculum vitae and applications to: The Baker Institute, Cornell University, Ithaca, NY 14853. Cornell University is an Equal Opportunity/Affirmative Action Employer and Educator.

CORNELL UNIVERSITY

UNIVERSITY OF ROCHESTER

SCHOOL OF MEDICINE AND DENTISTRY

NIMH POSTDOCTORAL RESEARCH FELLOWSHIPS in psychoneuroimmunology. Interdepartmental positions for fellows in immunology for fellows trained in the behavioral or neurosciences and neuroscience training for fellows trained in immunology. Emphasizes research. Fellows will work with faculty from the Departments of Psychiatry, Neurobiology and Anatomy, and Microbiology and Immunology on brain, behavior, and immune system interactions. Ph.D. and M.D. candidates must be U.S. citizens or permanent residents. Two-year minimum. Submit goals, description of research interests, curriculum vitae, and three references to: Dr. E. Amirante, Department of Psychiatry, University of Rochester Medical Center, Rochester, NY 14642. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE

The Division of Molecular Virology and Immunology, Department of Microbiology, of the Georgetown University Medical Center seeks candidates for a research position at the research associate level. Program emphasis is on the molecular biology of the human immunodeficiency virus. We require either a person with an M.S. or recent Ph.D. with training in oligonucleotide synthesis, plasmid preparation and minipreps, sequence analysis, computer data entry, and molecular biology techniques. Salary and academic appointment are commensurate with experience and training. Send letter of application and curriculum vitae to: Dr. John L. Gerin Division of Molecular Virology and Immunology 5640 Fishers Lane Rockville, MD 20852 An Affirmative Action/Equal Opportunity Employer.

MEDICAL TECHNOLOGIST. For medical laboratory in Cincinnati, Ohio. Evaluate and evaluate laboratory technology tests including bacteriology, mycobacteria. Performs chemical, microscopic, serologic, hematologic, immunologic, and microbiologic tests and procedures. Salary: $20,000-$25,000. Submit resume and cover letter to: J. Davies, J.O. #109, 1683, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.
RESEARCH SCIENTIST

The Gillette Company has a challenging opportunity for a research scientist with expertise in biological sciences at its research facility in Gaithersburg, MD. The successful candidate will have a Ph.D. in biochemistry. Some post-doctoral experience in pharmacology/skin physiology is a plus.

This entry-level position is in our Physiology Department and will be involved in research as applied to the personal care products for The Gillette Company.

Gillette Research Institute is located in a new facility, outside of Washington, D.C., in an area rich in government, private, and academic scientific laboratories. We offer an excellent compensation and benefits package. Qualified candidates interested in this opportunity should forward a resume to:

Gillette Research Institute Personnel Department 401 Professional Drive Gaithersburg, MD 20879

Equal Opportunity Employer

ORGANIC CHEMIST
Ph.D.

We're currently seeking a senior level synthetic organic chemist to conduct drug discovery efforts in the Immunoinflammatory Section of the Medicinal Chemistry Department. The position will be responsible for the design and synthesis of novel therapeutic agents for the treatment of transplantation rejection and autoimmune diseases.

The ideal candidate should have a Ph.D. in Organic or Medicinal Chemistry with experience in the synthesis and manipulation of complex organic molecules. Good communication skills and the ability to work with interdisciplinary discovery teams is highly desirable. Post-doctoral experience is preferred, but is not essential.

We offer an excellent compensation and benefits package. Forward resume and salary requirements to: Wyeth-Ayerst Research, Personnel Manager, Position #347, CN 8000, Princeton, NJ 08643-8000. An Equal Opportunity Employer, M/F/H/V. Principals only.

Veterinary Medical Officer

GS-14
Salary Range $52,406 - $57,650

The Division of Toxicology Research and Testing (DTRT), an operating component of the National Toxicology Program (NTP), is seeking applicants for a permanent position as Staff Pathologist in the Chemical Carcinogenesis Branch (CCB). The CCB sets priorities, designs, conducts, evaluates and reports long-term toxicity and carcinogenicity evaluations in rodents on chemicals of environmental concern. A majority of the studies are performed in laboratories under contract to the NTP but has limited in-house research capabilities for short-term and long-term studies. The NTP disseminates the results of its long-term and short-term studies to government agencies and the scientific community through the publication of NTP Technical Reports and by publications in the scientific literature. The selectee will assist in the pathology quality assurance reviews of DTRT long-term toxicity and carcinogenicity studies, will be in charge of the Pathology Working Group peer review process and depending on his/her background will assist in study design and in the evaluation and reporting of the studies. The selectee will interact with chemists, toxicologists, pathologists and with other discipline leaders within DTRT and with scientists from government regulatory agencies, private industry and consumer groups on the pathology, design, or evaluation of NTP long-term toxicity and carcinogenicity studies on environmental chemicals and their potential to be hazardous for man. The selectee will also be expected to participate in studies that will aid in our understanding of rodent carcinogenicity studies and their relevance for hazard identification for man. The incumbent must possess a DVM, Sc.D, MD, with residence training and/or PhD in pathology. Board certification (ACVP) is desirable. U.S. Citizenship is required.

For additional information, contact Norma Daye or Lisa Fletcher at 919/541-7811. To apply, submit curriculum vitae and the names of three references by April 30, 1991 to:

Norma L. Daye (HNV28)
NIEHS Personnel Office
P.O. Box 12233
Research Triangle Park, NC 27709

An Equal Opportunity Employer
ARS is seeking a permanent, full-time SOIL SCIENTIST/AGRICULTURAL ENGINEER for the Crop Improvement Research Unit, Columbia, Missouri. Goal of the research will be to discover new knowledge of the basic processes affecting infiltration and soil erosion on cropland soils and to transfer this knowledge to practical applications. Knowledge of infiltration and soil erosion theory, mathematical modeling and erosion prediction, and cropping and management for erosion control are required. Ph.D. is desirable. Must be a U.S. citizen. Salary is commensurate with experience (range: $37,000 to $55,000). For information on application procedures/forms, contact: Beverly Wethington, 301-844-1858. Application in response to this announcement must be postmarked by 15 April 1991. USDA/ARS is an Equal Opportunity Employer.

RESEARCH TECHNICIAN. Requires B.S. and 2 years of animal research experience. Duties include data analysis, HPLC, electrophoresis, drug administration, surgery, and brain process. Salary: $10.60 per hour; 40 hours per week, 8:00 a.m. to 5:00 p.m. Apply to: Employment Services, 516 North Kangamun

JUNIOR SCIENTIST. For biochemistry research. Requirements: B.S. in organic/chemical pharmacy plus 1 year of experience as junior scientist or research assistant. Special requirements: (i) From either education or experience, 6 months of experience in each of the following (may be concurrent): (a) solid phase synthesis of peptides including solid phase cleavage and deblocking by hydrolysis; (b) quantitative determination by amino acid composition of peptides and proteins by HPLC methods; (c) application of spectroscopic methods (NMR, UV, IR, MS) as relating to structural analysis of organic compounds; (d) quality control of synthetic peptide mixtures by HPLC analysis. (ii) Basic knowledge of molecular biology, genomics, cloning, DNA hybridization and purification, cell fractionation, centrifugation, transmission electron microscopy (TEM); plan and conduct analytical and/or experimental studies to prove/disprove validity of ideas; initiate new areas of investigation leading to new technologies in agricultural industry; develop complex procedures and prepare design criteria for special test equipment; design specialized equipment capable of culturing microorganisms to provide adequate means to generate sufficient quantities of these microorganisms. Ph.D. degree in biochemistry or equivalent experience is required. Ph.D. experience in microbiology required as well as 3 years of experience in job offered or 3 years of experience as pre- or postdoctoral research scientist. Must have conducted research on aerobic and anaerobic extracellular enzymes including characterization of new organisms from naturally occurring hyperhalophilic fermentation including sulfate-reducing bacteria. Research in this area must also have involved designing a medium containing 4-nitrodiphenyl ether for detecting the diaphenyl ether cleavage by microorganisms on agar resulting in clearing and characterization of a diaphenyl ether cleavage gene from Erwinia sp. Must have proof of legal authority to work in the United States. Must have at least 3 years of experience in research, preferably in molecular biology. Salary: $12,500 per year.

STAFF X-RAY CRYSTALLOGRAPHER. The Department of Chemistry, Princeton University, has an opening for a small molecule crystallographer on its professional technical staff. Responsibilities include: the operation, maintenance, and administration of the x-ray crystallographic facility, the determination of structures, and the training of graduate students in techniques of structure analysis. Experience includes a Nicolet 83x diffractometer with LT capability, a desktop Eclipse computer (SHELXTL software), and a departmental MicroVAX (SHELXL Plus). A Ph.D. in chemistry or equivalent experience in x-ray crystallography is required. Salary and rank dependent upon qualifications and experience. Send resume and three letters of recommendation to: Professor Robert Huber, Jr., Department of Chemistry, Princeton University, Princeton, NJ 08544. Princeton University is an Equal Opportunity/Affirmative Action Employer.

COURSES AND TRAINING

FUNDAMENTAL NEUROBIOLOGICAL APPROACHES TO DISEASE: THE MECHANISM IN NEUROPSYCHOLOGY
19 TO 24 MAY 1991
The Neurosciences Institute will sponsor an intensive, week-long course emphasizing the disease process as an object for biological research. The purpose is to introduce students to the basic physiology and pathology of selected human syndromes affecting behavior and to the opportunities they provide for solving fundamental biological problems. The course program will review each clinical phenomenon and present basic neuroscience in a format that includes lectures, case presentations, group discussions, and small group discussions. Instructors will include Ursula Bellugi, Hans-Joachim Freund, Joachim Fuster, Patricia Goldman-Rakic, Charles Mandell, Marek Marcel Mesulam, Mortimer Mishkin, Fred Plum, Michael Posner, Marcus Raichle, Vilayanur S. Ramachandran, Larry Squire, Thomas Tone, Larry Weiskrantz, Robert Wurtz, and Semir Zeki.

Applicants are invited from scientists with advanced training and experience in neuroscience or related biological sciences. Participants’ expenses will be reimbursed by the institute. For applications or further information, please write to W. Einar Fishbein, Neurosciences Institute Executive Director, The Neurosciences Institute, 1230 York Avenue, New York, NY 10021 or telephone: 212-870-8975.

MEETINGS

THE PYROLES OF PHOTOSYNTHETIC ORGANISMS (an international interdisciplinary conference). University of California, Davis, California, 4 to 9 August 1991. Topics will include: aminolevulinic acid formation in bacteria and chloroplasts, biliprotein genes in cyanobacteria, biosynthesis of plastid C-type cytochromes, role of envelope in biogenesis, recent advances in enzymology of magnesium chelation, regulation of chlorophyll-protein complexes, and taxonomic and evolutionary aspects of aminolevulinate biosynthesis. For information, contact: Paul A. Castelfranco, Department of Botany, University of California, Davis, CA 95616. Telephone: 916-752-0626 or -7247. FAX: 916-752-4754.
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