POSITIONS WANTED


Physiologist, M.S. Seventeen years’ teaching experience secondary and college level, seeks teaching or related research position in the Boston area. Write G. Ellis, P.O. Box 231, Brewster, MA 02631. 3/6, 13

Scientist (Ph.D. Biochemistry, 1972). Many publications: neurotransmission; molecular, ion transport; gaiting process; membrane phenomena; amino acid, intercellular energy metabolism; neurotransmittant interactions; drug effects; neurotoxicology; CNS dysfunctions. Teaching experience. Seeks suitable position. Box 28, SCIENCE.

POSITIONS OPEN

ANALYST IN SCIENCE AND TECHNOLOGY THE LIBRARY OF CONGRESS Congressional Research Service GS-11 or GS-12 $27,172 to $42,341*

Prepares analytical reports, memoranda, written responses on issues of legislative concern within the field of science and technology.

QUALIFICATIONS: Three years of specialized experience demonstrating a broad knowledge of general engineering techniques, and an understanding of related public policy issues with particular emphasis in areas associated with defense and telecommunications technologies. Educational requirement is either bachelor’s degree in engineering or bachelor’s degree in physics with a minimum of 24 semester hours in the physical sciences.


Equal Opportunity Employer

*Salary level to be determined by eligibility for GS-11 or GS-12 grade levels based on experience and training.

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X

X

Chemical Engineer seeks position in biotechnology industry, converting research results into production processes. Over 3 years’ hands-on experience in chemical process engineering and production supervision. Also R&D experience. Box 21, SCIENCE.

Science Instructor. Effective, enthusiastic teacher experienced in lecture and lab physics, astronomy, mathematics, and ornithology as well as pre-clinical and clinical medicine seeks teaching position in college undergrad- ate or accelerated high school program. Would also consider medical school/FF residency teaching appointment. Bob Donert, M.D., 127 Park, Medfield, MA 02052. 81641.

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POSITIONS OPEN


WASHINGTON UNIVERSITY MEDICAL SCHOOL
ASSISTANT PROFESSOR DEPARTMENT OF PHARMACOLOGY
Applications are invited from outstanding candidates for a highly competitive tenure-track faculty position. Extensive postdoctoral experience emphasizing mechanistic approaches to pharmacological problems are preferred. Send curriculum vitae and reprints, as well as a description of current/future research plans, and three letters of reference to: Dr. Philip Needleman, Department of Pharmacology, Washington University Medical School, 660 South Euclid, Saint Louis, MO 63110. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF RADIOLOGICAL SCIENCES
UNIVERSITY OF CALIFORNIA-IRVINE
The Department of Radiological Sciences of the University of California-Irvine seeks to make an appointment at the assistant professor level beginning January 1988. Applicants should have a Ph.D. and a strong background in Nuclear Magnetic Resonance (NMR) imaging with a working knowledge of NMR flow imaging. Interested applicants should submit the names of three references and curriculum vitae to: Professor O. Nalcioglu, Department of Radiological Sciences, University of California, Irvine, CA 92717 by 1 April 1987. The University of California is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF ZOOLOGY
TEMPORARY—The University of Maine seeks a biologist with a Ph.D. to teach undergraduate courses in vertebrate biology and behavior and to conduct research in some aspect of vertebrate biology beginning 1 September 1987. Experience in teaching the biology of vertebrates is essential. Send a letter of application, resume and names of three references to: James McCleave, Department of Zoology, University of Maine, Orono, ME 04469 by 30 March 1987. An Equal Opportunity/Affirmative Action Employer.


BIOLOGICAL AND CHEMICAL SAFETY OFFICER
The University of Texas Health Science Center at Dallas (UTHSCD) seeks a safety professional to conduct a program in biological and chemical safety. Duties include devising strategies for compliance with regulations and guidelines and implementing final policies. Requirements: Master's or Ph.D. in industrial hygiene, or related field; 5 years of experience in lab safety; excellent written and verbal skills. Send resume by 1 April 1987 to: Dr. Paul A. Van Dreal, Chairman, Search Committee, UTHSCD, 6333 Harry Hines Boulevard, Dallas, TX 75235-9072.
Investigative Toxicologist

Smith Kline & French Laboratories, a leader in pharmaceutical research, is seeking a Senior Toxicologist to expand its current program in investigative toxicology.

The Department of Investigative Toxicology is recruiting for an outstanding scientist with expertise in physiologic monitoring of pharmacologic/toxicologic drug effects on the cardiovascular and renal systems in laboratory animals. Individuals with an M.S. degree in Toxicology, Pharmacology, or a related discipline and 5 years of relevant experience or a B.S. degree and 8 years of relevant experience are encouraged to apply.

Excellent opportunities exist for innovative interdisciplinary research in our new and superbly equipped Research and Development facility in suburban Philadelphia near Valley Forge, Pennsylvania.

We offer an excellent compensation, benefits and relocation package as well as opportunities for personal and professional growth. Publication of research results is encouraged and supported. For confidential review, please forward your C.V. and names of three references to Robert F. Obst, R&D Senior Employment Consultant, SmithKline Beckman Corporation, 1988 Spring Garden Street, Philadelphia, PA 19101. We are an Equal Opportunity Employer, M/F/H/H.

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- Whenever you write us about your membership or subscription, please attach a Science address label to ensure prompt service.
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  ☐ $98 USA  ☐ $130 Canada  ☐ $125 Foreign
  ☐ $163 air-surface delivery via Holland

☐ Payment enclosed  ☐ Bill me later

Name  Please print
Address
City  State  Zip  SA16R73

The Pennsylvania State University
DEAN
College of Science

Applications and nominations are invited for the position of Dean of the College of Science. Candidates should have: credentials to merit appointment as a tenured full professor in the College; experience in teaching, research and administration in an academic environment; demonstrated development and administrative, leadership and management skills.

The position requires an individual who can effectively lead and manage a large and complex college. The College of Science (one of ten colleges in the University) provides instruction and research opportunities in the biological, mathematical and physical sciences to 2900 baccalaureate and 650 graduate degree students. There are 412 faculty in the college at the University Park Campus, and 287 at the University's 21 campuses located throughout the Commonwealth. The budget for 1986-87, including sponsored research, is $36 million. In addition, annual private gifts total about $5 million.

The Search Committee will begin to review applications in April and continue to receive them until a candidate is selected. Nominations and letters of application accompanied by a curriculum vitae and other supporting materials, should be mailed to:

Dr. Stephen J. Benkovic, Chair
Science Dean Search
The Pennsylvania State University
Room 201 Old Main, Box SM
University Park, Pennsylvania 16802

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WORK ENVIRONMENT
DEPARTMENT OPPORTUNITIES

Applications are invited for the following tenure track positions:

SENIOR FACULTY MEMBER
Expertise in political economy, as well as scientific training in occupational health, with experience in the study of the social and political dimensions of technological change and hazard control are required.

EPIEOMILOGIST
Expertise in workplace hazard identification and quantification required. Experience in either physical-chemical and/or biomechanical studies is desirable.

ENGINEER
Expertise in the control of biomechanical hazards required. Research experience in the solution of ergonomic programs in industry is desirable.

The Avenue, current with the academic growth in the northwest of Boston, is one of three public universities in Massachusetts. With a current enrollment of over 15,000, it is one of the foremost professional universities in the Northeast.

The University has made a significant commitment to the development of industrial growth and innovation. An important aspect of productivity enhancement is the protection of worker health; consequently, the College of Engineering is forming an innovative interdisciplinary Work Environment Department in September 1987. This department will be unique in its attention to the control of workplace exposures.

Active research and graduate academic programs in industrial hygiene and ergonomics are planned.

Interested candidates, please send application (letter of intent, professional and academic resume, and the names and addresses of three references) to: Dr. Alida Cugnola, Dean, College of Engineering, University of Lowell, One University Avenue, Lowell, MA 01854 (Phone 617-452-5000 ext. 2322).

The University of Lowell is an Equal Opportunity/Affirmative Action, Title IX, 504 Employer.

U.S. PATENT AND TRADEMARK OFFICE

POSITION: Microbiologist/Patent Examiner

Opportunity involves the scientific and legal evaluation of patent applications involving recombinant DNA, molecular and cellular immunology, molecular genetics, cell biology, microorganisms, cell culture, fermentation, enzymology or clinical chemistry.

QUALIFICATIONS: A full 4-year or longer professional curriculum in an accredited college or university leading to a Bachelor’s Degree or higher with specific study in Molecular Biology, Biochemistry, Immunology, Microbiology or cell Biology.

A Ph.D. or M.S. degree with relevant research experience is preferred. A B.S. degree with significant research experience will be considered.

Research Experience in any of the following areas would be beneficial: DNA cloning, gene expression, sequencing techniques, hybridoma technologies, monoclonal antibody applications, mammalian or plant cell lines, cell culture, immunossays, hybridization techniques, fermentation, enzymatic reactions, diagnostics and automation of clinical analysis.

SALARY: Dependent upon experience and qualifications.

LOCATION OF POSITION: Arlington, VA

For further information contact:

Randy Strother
Patent and Trademark Office
Office of Personnel, C&O
CPK 1, Suite 700
Washington, D.C. 20221
703-557-1244

Cell Biology Research (BS/MS)

The Upjohn Company, a world leader in research and development of pharmaceuticals, located in Kalamazoo, Michigan, has openings at the B.S. and M.S. degree level in cell biology research. Knowledge and experience in the study of guanine nucleotide binding proteins and receptors are highly desirable with a strong background in protein purification. Candidates should have a demonstrated ability to work independently in basic research and support roles and will be expected to make intellectual contributions.

Kalamazoo is a medium-sized Southwestern Michigan community with immediate access to a rich mix of cultural, educational and recreational pursuits including numerous lakes and a four-season climate. Upjohn offers the opportunity for career growth, a competitive salary commensurate with experience, a comprehensive benefits program and relocation assistance.

For confidential consideration, please call from outside of Michigan toll free 1-800-253-8600, ext. 3-6767, (inside of Michigan call collect 616-323-6767) to request an employment application be sent to you immediately. Please refer to ad number 1834-A when calling.

Upjohn

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ASSISTANT PROFESSOR OF INSECT PATHOLOGY


ASSISTANT PROFESSORS

BIOLOGY and MICROBIOLOGY

The University of Houston (UH)-Downtown anticipates filling two tenure-track assistant professorships, effective August 1987. We seek individuals with Ph.D. in biology or microbiology; some undergraduate teaching experience is preferred. Teaching assignments for the biology position include histology, embryology, first-year biology, and possibly cell biology. Teaching assignments for the microbiology position include first-year biology and microbiology, molecular genetics, and upper-level courses. The appointment began on 10 April 1987. UH-Downtown is an urban, undergraduate institution. Applicants should send a letter of application, curriculum vitae, and names and addresses of three references: Dr. John R. Capehart, Department of Natural Sciences, UH-Downtown, One Main Street, Houston, TX 77002.

ASSISTANT VICE PRESIDENT

FOR RESEARCH

The Saint Louis University Medical Center seeks to recruit a scientist as its assistant vice president for research. Saint Louis University is a private, coeducational institution that is a comprehensive health sciences center with graduate and undergraduate programs in the arts and sciences, business, dentistry, health sciences, law, and pharmacy. It is the academic affiliate of three teaching hospitals and a major component of the Saint Louis University System, which also includes the Saint Louis University School of Medicine. St. Louis, Missouri, is a metropolitan area of 3.5 million people. The University seeks a dynamic and visionary leader who shares its commitment to excellence in teaching, research, patient care, and community service. We seek candidates who have the following qualifications and attributes:

- A doctoral degree in a relevant field
- A strong track record of administrative accomplishment
- Significant accomplishments and contributions to the fields of biochemistry and molecular biology
- Strong collaborative skills and the ability to foster interdisciplinary research
- Experience in developing and managing research programs
- Exceptional interpersonal, oral, and written communication skills
- Demonstrated ability to establish and maintain productive relationships with faculty, students, staff, and external partners
- Strong programmatic management skills

Applicants should submit curriculum vitae, a letter describing their qualifications, and names and addresses of three references by May 1, 1987. Applications from women and minority candidates are particularly encouraged. Send curriculum vitae and letters of reference to: Dr. Robert B. Criley, Director, Office of Research, Saint Louis University, 19250 Lucas, P.O. Box 12530, St. Louis, MO 63136.

BIOCHEMISTRY—DENTAL RESEARCH

A tenure-track faculty position in a joint Department of Biochemistry (Schools of Dentistry and Medicine), University of Alabama at Birmingham, is available for a junior or senior biochemist with research interests and good publication record in the biochemistry of oral or related tissues. The applicant is expected to develop an externally funded research program in this area. Teaching responsibilities include graduate and medical students, but not undergraduates. Appointment level and academic rank will be commensurate with qualifications. Applications/cover letters are strongly encouraged and should be submitted to: Dr. L. Henning, Birkedal-Hansen, Chair, Search Committee for Biochemist, School of Dentistry, Box 19, University of Alabama at Birmingham, Birmingham, AL 35294. The University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

To study the molecular biology of cell adhesion proteins and their receptors. The project will focus on new approaches to understanding molecular interactions. While experience desirable, we will gladly train an interested individual in recombinant DNA, solid phase peptide synthesis, and biochemical methods. Send summary of research, current vitae, and references: Dr. J. K. Klee, Department of Cellular and Structural Biology, University of Texas Health Science Center, San Antonio, TX 78284. An Affirmative Action/Equal Opportunity Employer.

ASSOCIATE SCIENTIST

To conduct collaborative studies on the regulation of enzyme A metabolism in the laboratory of Dr. James R. Weis Center for Research, Geisinger Clinic, Danville, PA.

Applicants must have a Ph.D degree or equivalent, at least 3 years of postdoctoral research experience, and a strong background in biochemistry and regulation of metabolic pathways. The studies involve the use of isolation of reference, M.D., and purified membrane and enzyme systems. Salary competitive and commensurate with experience. Send CV, detailing education and experience, research interests, and references to: Dr. J. B. Julian, Dean's Office, Central College, Pella, IA 50219 by 31 March 1987.

The University of Melbourne Chair of Biochemistry

Applications are invited for appointment to a Chair of Biochemistry currently vacant. The University seeks an appointee with an outstanding record in any branch of biochemistry or biochemical medicine. Desirable qualifications include (but are not limited to): a) Ph.D., (plus a loading of $5,223 for a medically qualified appointee). Further information about the position and the Russell Grigg School of Biochemistry, together with details of application procedure, supervision, travel and removal expenses, housing assistance, and conditions of appointment, is available from: The Registrar, The University of Melbourne, Parkville, Victoria 3052, Australia, or The Secretary General, Association of Commonwealth Universities (App.), 36 Portland Street, London WIT 1AN, OPP. Applications close on 31 May 1987. The University reserves the right to fill the Chair by invitation. Equal Opportunity in Employment is the policy of the University of Melbourne.

Chairman, Department of Neurology—Texas Tech University Health Sciences Center, Lubbock, Texas

Applicants are invited for applications for the position of Professor and Chairman of the Department of Neurology. The department consists of six faculty and is involved in Parkinson's disease, clinical and basic science research through the Tarbox-Parkinson's Institute, Alzheimer's disease, and sleep disorders. Strong support is presently available for these activities. The chairman's responsibilities include recruitment of educational, research, and patient care activities. Candidates should have an established research and administrative background. Applicants should forward curriculum vitae, names of three references, and a letter stating goals, teaching, research, and clinical interests, to: Dr. Gabor B. Racs, Chairman, Neurology Search Committee, Department of Anesthesiology, 3601 4th Street, Lubbock, TX 79430.

An Affirmative Action/Equal Opportunity Employer.

COMPARATIVE PHYSIOLOGY: Biology Department seeks candidates for 2-year, renewable appointment beginning fall 1987. We seek a candidate with expertise in animal physiology plus developmental biology, neurobiology, or physiological ecology, as well as participate in team-taught courses in evolutionary biology. The position would be affiliated with the Molecular Biology Program. Applicants should send curriculum vitae, statement of research activities, and references to: Professor John L. Rowland, Department of Biology, Bowling Green State University, Bowling Green, OH 43403. An equal opportunity employer.

ASSOCIATE CHAIRMAN—Research

The University of Texas Southwestern Medical Center, Dallas, invites applications for an associate chairman in the Department of Radiation Oncology. The successful applicant will be a professor and a leader in radiation oncology with a demonstrated record of high-caliber clinical care, research, and teaching. The University of Texas Southwestern Medical Center is an equal opportunity employer.

ASSOCIATE PROFESSOR

of Pathology

with Specialization

in Endocrine Pathology

The Van Andel Institute, Grand Rapids, Michigan, is an equal opportunity employer and supports an active, diverse research community. Applications from women and minority candidates are encouraged. To apply, please send a letter of interest, current vitae, and names and addresses of three references to: Dr. W. J. Van Andel, Department of Pathology, Van Andel Institute, P.O. Box 2525, Grand Rapids, MI 49510. The Van Andel Institute is an equal opportunity employer.

IMMUNOLOGIST

The Medical College of Virginia/Virginia Commonwealth University seeks applicants for a position at the level of assistant professor, associate professor, or professor in the departments of Microbiology and Immunology/Immunogenetics. The position will be located in a nationally recognized research group developing independent research in transplant immunology and assisting in various transplant-related activities as well as directing a well-established tissue typing laboratory for active kidney, heart, liver, bone marrow, and organ transplantation programs. The position will provide excellent research opportunities for conducting basic biomedical and clinical research both in the Surgery Department as well as in collaboration with other faculty members within a larger medical complex.

Candidates should submit curriculum vitae, a letter stating research goals, and names and addresses of three references to: Dr. H. M. Lee, Division of Transplant and Vascular Surgery, Department of Surgery, Medical College of Virginia/Virginia Commonwealth University, Box 57 MCV Station, Richmond, VA 23298-0003.

The College of Virginia/Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer.

INVERTEBRATE ZOOLOGIST

The Department of Biology, Illinois Wesleyan University, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. Applicants should have a Ph.D. degree. The successful candidate must be a specialist in teaching invertebrate zoology (including marine biology), and be able to participate in team-taught general biology courses for majors and nonmajors. The successful candidate will be expected to conduct research and to guide undergraduate student research projects. Primary consideration will be given to candidates who are interested in animal behavior and sensory aspects. Women and minorities are particularly encouraged to apply. Send curriculum vitae and three letters of reference to: Dr. Bruce B. Criley, Department of Biology, Illinois Wesleyan University, Bloomington, IL 61702. Illinois Wesleyan is an Equal Opportunity Employer.

RESEARCH STATISTICIAN/DATA MANAGEMENT COORDINATOR—The University of Texas Health Science Center at Dallas (UT-CHSD), Department of Psychiatry—Mental Health Clinical Research Center invites applications for Ph.D.'s with APA-approved internships for an academic position to begin summer/fall 1987. The Center supports interdisciplinary collaboration in the study of psychological and biological aspects of affective and related disorders. Candidates must have completed Ph.D. and have demonstrated clinical research interests in affective, anxiety, or related disorders and experience in cognitive and/or behavioral therapy. Responsibilities will include clinical evaluations, psychotherapy, and collaborative research on psychotherapy for affective and related disorders. Send curriculum vitae, reprints, and three letters of reference to: A. John Rush, M.D., Department of Psychiatry/Research/ADD/ASD Units, University of Texas Health Science Center at Dallas, 5523 Harry Hines Boulevard, Dallas, TX 75235. UT-CHSD is an Equal Opportunity Employer.
Biological Oceanographer
Woods Hole Oceanographic Institution

Tenured position open in Biology Department for experienced PhD Scientist interested in ecology or behavior of oceanic micronekton and its study using submersibles or other innovative approaches. Teaching experience desirable. Successful candidate expected to maintain vigorous program in blue-water oceanography supported by grants/contracts resulting from his/her proposals. Send c.v., names/addresses of 3 references by April 1, 1987 to:

Personnel Manager
Box 54P

Woods Hole, MA 02543
An equal opportunity employer M/F/H/V

Microbial Physiologists

Pfizer Central Research is seeking two highly qualified individuals for its Fermentation and Recovery R&D group. The successful candidates should have a PhD in Microbiology or Biochemistry with a strong emphasis on microbial physiology. Relevant post-doctoral experience is highly desirable. Hands-on knowledge of modern chromatographic, electrophoretic and radiochemical methods is essential. Experience with computer-coupled instrumentation and the ability to work as a member of a highly motivated multidisciplinary team is important.

Duties will include optimization of fermentation processes for medicinal, enzymes, polysaccharides and other chemicals, basic studies of metabolic pathways and control mechanisms and the isolation and analysis of key metabolic intermediates.

In addition to a stimulating professional environment, we offer a competitive salary/benefits package plus an attractive southeastern Connecticut shore location. Qualified applicants should submit their resume and references, in confidence, to: Jerry K. Larson, PhD, Manager of Employment, Pfizer Central Research, Eastern Point Road, Groton, Connecticut 06340.

An equal opportunity employer

PLANT MOLECULAR BIOLOGY
ASSISTANT PROFESSOR

The Salk Institute for Biological Studies has an immediate opening for an Assistant Professor in the Plant Biology Laboratory. The successful candidate will be expected to develop a research program in Plant Molecular Biology/Molecular Genetics. Applicants should have a Ph.D. degree as well as postdoctoral experience.

We offer competitive salaries and a comprehensive benefits package. Qualified candidates should send curriculum vitae, an outline of research accomplishments and interests, and three letters of recommendation by March 31, 1987 to:

Chair, Plant Biology Search Committee
Salk Institute for Biological Studies
P.O. Box 86600
San Diego, CA 92138-9216

Equal Opportunity Employer m/f/h/v

Peptide Chemist

A research position is currently available in our Neuroscience group for an imaginative Peptide Chemist. Applicants should have a Ph.D. degree, facility with modern analytical techniques, and extensive experience in extraction, purification and structure determination of oligopeptides. Experience in purification and structure determination of novel or modified peptides, proteoglycans, proteolipids and/or nonproteinacious bioactive compounds would be useful. Qualified candidates with or without a neurobiology background are invited to apply.

California Biotechnology Inc., is a rapidly growing biotechnology and drug delivery company engaged in the development of health care products. We offer a stimulating research environment with a competitive compensation and benefits package. For consideration, please forward curriculum vitae and names of three references in confidence to: Human Resources, California Biotechnology Inc., Dept. MF-FF, 2450 Bayshore Parkway, Mountain View, CA 94043. We're an equal opportunity employer.

CALBIO
DIRECTOR, IMMUNOLOGY, ALLERGIC AND IMMUNOLOGIC DISEASES PROGRAM

The National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health, is currently recruiting for the Senior Executive Service position of Director, Immunology, Allergic and Immunologic Diseases Program (IAIDP), at a salary range between $63,135 and $70,000 PA. (If filled by a Medical Officer, selected candidate may be eligible for a Physician’s Comparability Allowance up to $10,000, in addition to base salary). The Director, IAIDP, is one of four extramural program directors in the Institute with responsibility for conducting a nationwide research effort, through extramural sources, in allergic and immunologic dysfunctions. Eligible candidates must meet the qualifications requirements for Medical Officer, GS-602; or Health Scientist Administrator, GS-601 (a Ph.D. in the biomedical sciences, or an appropriate combination of comparable technical and professional knowledge). Candidates must have knowledge of the scientific and administrative aspects of basic biomedical research programs funded through grants and/or contracts. Candidates must also have demonstrated competences to assume leadership responsibilities, and skills as a manager.

Interested candidates should submit Application for Federal Employment, SF-171 (available at all Federal Job Information Centers and Federal Personnel Offices), C.V. and bibliography to the address below. Resumes alone are not acceptable applications for the Senior Executive Service. 

Mrs. Janie R. Lacy
Personnel Officer, NIAID
National Institutes of Health
9000 Rockville Pike
Building 31, Room 7A33
Bethesda, Maryland 20892

The names of nominees may be phoned in to Mrs. Lacy on (301) 496-9686.

U.S. citizenship required.

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ROCKEFELLER FOUNDATION
BIOTECHNOLOGY CAREER FELLOWSHIPS

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

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

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

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

THE GRADUATE HOSPITAL

RESEARCH POSITIONS

The Graduate Hospital announces immediate openings in its expanding research program. Special emphasis is in:

- Cardiovascular Disease
- Pulmonary Disease
- Neurological Disorders

These areas of emphasis complement clinical activities and medical education programs of the Hospital.

Qualifications include M.D. and/or Ph.D., 3-5 years research experience, and a demonstrated ability to publish in the field. Experience in obtaining extramural funding is a plus.

The Graduate Hospital is a tertiary care teaching hospital located in center city Philadelphia. Graduate is affiliated with the University of Pennsylvania.

Interested applicants should furnish letter of application and resume to:

Director of Personnel, The Graduate Hospital, One Graduate Plaza, Philadelphia, PA 19146

Senior Chemist

Sigma Diagnostics, a world renowned manufacturer of diagnostic reagents is seeking a Ph.D. biochemist to join its research and development staff. The successful candidate will have a strong interest in developing diagnostic reagent kits. Candidates knowledgeable in enzymatic and/or immunological assay procedures are invited to apply. Experience in a clinical chemistry laboratory or in the diagnostic industry and proven leadership abilities are desired. Sigma offers competitive salary and full company-paid benefits.

Send resume in confidence to:

Director
Research and Development
Sigma Diagnostics
PO. Box 14508
St. Louis, MO 63178

Sigma Diagnostics
Equal Opportunity Employer M/F
SCIENCE, TECHNOLOGY AND INNOVATION INFORMATION SYSTEMS

Two tenure track positions at the assistant/associate level in the Management Science Department, School of Government and Business Administration, George Washington University.

Information Systems.
One position in this program. Expertise is expected in some combination of the following areas: Decision Support Systems, Programming Languages, Telecommunications, Operating Systems, Database Management, Management Information Systems, Expert Systems, Artificial Intelligence, Quantitative Analysis.

Management of Science, Technology and Innovation.
One position in this program. Expertise is expected in some combination of the following areas: Project Management, Technological Entrepreneurship, R&D Management, Science, Technology and Society, Innovation. Some industrial expertise is desirable.

Doctorate is required for each position. Candidates must be able to accept appointment by September 1, 1987. Send resumes and inquiries to: SEARCH COMMITTEE, Erik K. Winslow, Chairman, Management Science Department, George Washington University, Washington, D.C. 20052.

The George Washington University is an Equal Employment Opportunity Employer.

SENIOR RESEARCH BIOCHEMISTS

The LILLY RESEARCH LABORATORIES and the BIOCHEMICAL DEVELOPMENT DIVISION of Eli Lilly and Company have immediate openings for Senior Biochemists.

Bioanalytical Chemist
Applicants must have a doctoral degree in biochemistry, immunology, or analytical chemistry, with 2-4 years of post-doctoral experience in use of monoclonal antibodies as probes of enzyme or receptor function, and in their application to immunoassay development.

Biochemist
A doctoral degree in biochemistry with post-doctoral experience in some aspect of diabetes research is required to join a multidisciplinary research group exploring mechanistic aspects of diabetes and potential approaches to alternative therapies.

Biochemist-Biosynthetic Development
Applicants must have a doctoral degree and post-doctoral experience in protein biochemistry. The Senior Scientist will join a group which is concerned with the isolation, purification, and characterization of protein products. The work involves the application of state-of-the-art purification techniques from laboratory to production scale operations.

Qualified candidates should send their curriculum vitae to:
John W. Crooks
Manager, College Relations (SRB)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285
Equal Opportunity Employer

Discover Your Future In Biotechnology!

GENETICS INSTITUTE, INC., located in Cambridge, Mass., is a recognized leader in the field of biotechnology. Our research is committed to the development and application of recombinant DNA technology to human health care, agriculture, and chemicals.

Current expansion of our research and development efforts has created the following opening:

Robotics/Molecular Biology

We currently have positions available for highly motivated, talented individuals to take part in our robotics research. Qualifications include a B.S./M.S./Ph.D. degree in biology or biochemistry and a minimum of two years' experience in molecular biology. Demonstrated abilities in biochemistry protocol development desirable.

We offer a stimulating scientific environment in addition to a competitive salary and comprehensive benefits package. Qualified candidates should forward their resume, in confidence, to Cindy Molnar, Employment Representative.

Genetics Institute
87 CambridgePark Drive, Cambridge, MA 02140
An Equal Opportunity Employer
positions open

CRYSTALLOGRAPHER

A faculty position in macromolecular x-ray crystallography will be available in the Department of Life Sciences at the University of Illinois at Urbana-Champaign, effective August 1987. The appointment will be at either the associate or professor level, although junior candidates will be considered. Candidates must have demonstrated ability and commitment both to teaching and to development of a strong independent research program. Successful candidates will join two other crystallographers/diffractometers in support of a major new development in macromolecular structure. Other related campus facilities include a CRAY X-MP/48 supercomputer, NMR, EPR, fluorescence dynamics and genetic engineering facilities. Salary is negotiable. Send curriculum vitae, a brief statement of research interests and plans, and the names of three references to:

Dr. Edward W. Voss, Jr.
Chair, Search Committee
School of Life Sciences
393 Morrill Hall
505 South Goodwin Avenue
Urbana, IL 61801
Telephone: 217-333-2999

To receive full consideration, applications should be received prior to 15 March 1987. Interviews will be held on campus in mid-February. Applications received by 15 March 1987 will be given equal consideration.

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

positions open

CYTOGENETIC TECHNOLOGISTS—Experienced technologists needed for high volume private laboratory located in the mountains of northern New Mexico. These positions offer excellent salaries and benefits, and the chance to become part of a dynamic, rapidly growing company through an employee stock purchase participation program.

Send resume and salary history to:

K. E. Richkind, Ph.D.
Vivigen, Inc.
435 Michael's Drive
Santa Fe, NM 87501
Telephone 505-988-9744

the university of chicago

The Joseph P. Kennedy, Jr. Mental Retardation Research Center and the Department of Pharmacological and Physiological Sciences are recruiting new faculty with research interests related to the molecular and cellular biology of the nervous system. Applicants should have strong research credentials and have published in high-impact journals. The deadline for receipt of applications is 15 March 1987. Applicants should send curriculum vitae, the names of three referees, and a brief statement of research interests and plans, and the names of three references to:

Dr. Ronald Huisman, Director
Mental Retardation Research Center
Department of Pediatrics
The University of Chicago
5841 South Maryland Avenue, Box 413
Chicago, IL 60637

From the times is arguable, the principle of the University of Chicago has been to appoint scholars without regard to race, color, religion, sex or national origin.

USDA Human Nutrition Research Center on Aging at the University

HEALTH PHYSICIST

Successful candidate will be responsible for the operation of the Nutrition Center's whole body counter. Responsibilities will involve the design of experiments to examine nutrient absorption, bone density and radiation resistance in humans, measurements of whole body endogenous 40K and quality control of data. Candidate will also be expected to collaborate in ongoing and new research programs. Applications must include a radiation safety officer from the FNRC and monitor all equipment which could present a radiation hazard to human subjects. Ph.D. in physics, health physics or related field required. Experience in whole body counting highly desirable.


positions open

CYTOGENETICIST—Position available for ASSISTANT DIRECTOR of Cytogenetics Laboratory, Ph.D. or M.D., Board-certified or 1987 Board-eligible. Vivigen has an opening for an assistant director for its high volume, highly competitive laboratories in the Chicago area. This position offers the opportunity to join the executive staff of a rapidly growing genetic diagnostic laboratory located in the beautiful city of Santa Fe, in the northern mountains of New Mexico. Vivigen provides a competitive salary, excellent opportunities for career development, and a beautiful place to live and work. Send curriculum vitae, salary history, and three letters of recommendation to:

Dr. Kathleen Richkind
Vivigen, Inc.
435 Michael's Drive
Santa Fe, NM 87501

FACULTY POSITIONS IN PHARMACOLOGY AND THERAPEUTICS

The University of Calgary, Department of Pharmacology and Therapeutics, invites applications for faculty positions dedicated primarily to research activities. Individuals at any professorial rank, who have a Ph.D. and/or M.D. degree, and who have significant research training and/or research experience in pharmacology or a related discipline are encouraged to apply. Areas of particular interest to the department are: signal transduction; molecular and cellular toxicology; and transmembrane signaling/cell regulation. Candidates must have research accomplishments and a strong record of publication in refereed scientific journals. Preference will be given to candidates with a track record of significant research, and substantial ability to obtain grant support.

In addition to the above requirements, candidates must have a Ph.D. and/or a M.D. degree, and should be able to communicate in English. Preference will be given to candidates with significant experience in the area of pharmacology or a related discipline. Preference will be given to candidates with a Ph.D. and/or a M.D. degree, and should be able to communicate in English. Preference will be given to candidates with significant experience in the area of pharmacology or a related discipline. Preference will be given to candidates with significant experience in the area of pharmacology or a related discipline.

The deadline for receipt of applications is 15 May 1987. Applicants should apply in writing, enclosing curriculum vitae, the names of three referees, and a brief statement of research interests and plans, and the names of three references to:

Dr. M. H. Holenberg, Head, Department of Pharmacology and Therapeutics
The University of Calgary, Faculty of Medicine
3330 Hospital Drive NW, Calgary, Alberta, Canada T2N 4N1

MATHEMATICIAN—Participate in research involving investigation of methods for performing reconstruction of object distributions from projections using injective radiocollides and mathematical investigations directed toward solving the problems of medical and scientific kinematic problems. An important applied mathematics emphasis is on the statistical parameterization of data and the derived physiological inferences. Duties include the delivery of high-level mathematical and analytical concepts to problem solving and simulations using small and medium size computational equipment; ability to solve multi-dimensional inverse problems; involvement in preclinical investigations to perform Monte Carlo simulations and integral transforms. Candidate must be able to create computational algorithms independently and have some responsibility for interfacing computer-related hardware. Must have demonstrated ability to carry out independent research. Salary DOE and excellent benefits. Send curriculum vitae and names and addresses of three references to:

Dr. Ronald Huesman, c/o Ms. Jacqueline Schilling, Lawrence Berkeley Laboratory, Employment Office, 90-1062, #1 Cyclotron Road, Berkeley, CA 94720. Please refer to Job #146038. An Affirmative Action/Equal Opportunity Employer M/F/H.

MICROBIOLOGIST

Veterinary biologists manufacturer has a position available for a veterinarian with a graduate degree in veterinary virology and experience in electron microscopy and immunohematology. This is a new position and will develop into a new position in virology and immunology. Excellent opportunity for a veterinarian with a graduate degree in veterinary virology and experience in electron microscopy and immunohematology. Excellent opportunity for a veterinarian with a graduate degree in veterinary virology and experience in electron microscopy and immunohematology. Excellent opportunity for a veterinarian with a graduate degree in veterinary virology and experience in electron microscopy and immunohematology.


LIBRARIAN

The U.S. Geological Survey Library System, Reston, Virginia, is recruiting a RESEARCH LIBRARIAN for Collection Management and Access, GM-13/14, minimum starting salary at $38,727 per annum. A successful candidate should have knowledge of the scientific disciplines, experience for the research librarianship and the ability to manage a broad variety of tasks, and experience with database management and access services in a large research library system, excellent analytical skills, and an ability to manage and perform in an environment conducive for career development. Send curriculum vitae, salary history, and reference to:

Dr. Kathleen Richkind
Vivigen, Inc.
435 Michael's Drive
Santa Fe, NM 87501

positions open

MICROBIOLOGIST/VIROLOGIST

The West Virginia School of Osteopathic Medicine invites applications for a tenure-track position at the assistant or associate professor level. Qualified applicants must have a Ph.D. in virology or microbiology with virology specialty. Candidates with teaching experience are preferred. Research opportunities are available and encouraged. Teaching responsibilities include training of medical students and general and medical virology to medical students.

Candidates should submit a letter describing teaching and research experience and interests, curriculum vitae and three current letters of reference to: Chairperson, Microbiology Search Committee, c/o Human Resources Office, West Virginia School of Osteopathic Medicine (WVSMART), 400 North Lee Street, Lewisburg, WV 24901. Applications must be postmarked no later than 31 March 1987.

WVSMART is an Affirmative Action/Equal Opportunity Employer.

MOLECULAR/DEVELOPMENTAL BIOLOGIST: The Department of Pediatric Dentistry of the University of Texas Health Science Center at San Antonio invites applications for a tenure-track assistant professor position. Preference will be given to developmental biologists working on craniofacial development using state-of-the-art molecular and biochemical approaches. Applicants will be judged on potential for independent research and securing extramural funding as well as ability to interact with current centers of activity at the health science center in extracellular matrix and molecular biology. The candidate should have a strong background in research coupled with a keen interest in graduate education. This position offers the opportunity for significant creative freedom. Send curriculum vitae and a brief statement of present and future research interests, and three letters of recommendation should be sent to: Dr. Frank A. Catalonetto, D.M.D., Chairman, Department of Pediatric Dentistry, University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284—7888. An Equal Opportunity/Affirmative Action Employer.

MOLECULAR GENETICIST—Psychiatric Genetics Program, Department of Psychiatry, Medical College of Virginia/Virginia Commonwealth University (MCV/VCU) is recruiting a full-time research scientist interested in applying molecular genetic techniques to neuropsychiatric diseases. This person will join an active research team with a strong emphasis on quantitative genetic methods, with several major psychiatric genetic field studies currently under way. Responsibilities will include supervision of undergraduate, graduate, and postdoctoral fellows. This position will be highly flexible and adaptable for the individual candidate. Send curriculum vitae and references to: Dr. K. Kessler, Departments of Psychiatry and Human Genetics, MCV, Box 710, Richmond, VA 23298. MCV/VCU is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
POSITIONS OPEN

MOLECULAR BIOLOGIST/CELL BIOLOGIST

The Biology Department, Central Michigan University, invites applications from qualified candidates for a tenure-track, assistant professor position to begin August 1987. A Ph.D. and demonstrated potential for teaching excellence is required. The person will be expected to establish an active research program and direct student research (B.S./M.S. level). The appointee will teach introductory biology on a rotating basis and undergraduates and graduate courses in her specialty. Send curriculum vitae, transcripts, description of research plans and needs, a list of course teaching competence and preference, and the names, addresses, and telephone numbers of three references to Dr. Lawrence Koehler, Chairperson, Department of Biology, Central Michigan University (CMU), Mount Pleasant, MI 48859. Deadline: 27 March 1987. Telephone: 517-774-3237. CMU is an Affirmative Action/Equal Opportunity Institution.

NATIONAL INSTITUTES OF HEALTH
MOLECULAR BIOLOGY/TRANSGENIC MICE

MOLECULAR BIOLOGIST, M.D., Ph.D., D.D.S., or equivalent, with experience in recombinant DNA technology and construction of vectors to work on work on not yet-defined disease. The candidate should have at least 3 years of postdoctoral experience. The initial appointment will be for 2 years with renewal on a yearly basis. The salary range, depending on experience, is $24,000 to $46,000 per year. U.S. citizenship required. Please send curriculum vitae and 3 references to: Dr. Anna R. Roy, Professor of Biological Sciences, Oakland University (OU), Rochester, MI 48063. OU is an Equal Opportunity/Affirmative Action Employer and offers attractive salary and fringe benefits.

NMR SPECTROSCOPIST

National Institutes of Health, National Institute on Aging, Public Health Service, Department of Health and Human Services. Applications are invited for the above position. This position is located in the Laboratory of Cellular and Molecular Biology, National Institutes of Health, Bethesda, MD. We are seeking a Research Associate to participate in a project related to studies of aging. This is a 1-year position involving a variety of experimental methods using NMR spectroscopy. The successful candidate will have a Ph.D. in molecular biology or equivalent. U.S. citizenship required. Applications should be sent to: Joseph E. Cava, Laboratory of Cellular and Molecular Biology, National Institutes of Health, Bethesda, MD 20892.

FACULTY POSITIONS IN MOLECULAR GENETICS CENTER FOR MOLECULAR AND CELLULAR MEDICINE

DARTMOUTH MEDICAL SCHOOL

Dartmouth Medical School is planning a new medical center campus, to be completed in 1991. As part of this process, a Center for Molecular and Cellular Medicine is being established. Several tenure-track faculty positions are available now in Molecular Genetics and may be filled at any level (Assistant, Associate, or Full Professor). These appointments will strengthen existing activities in molecular genetics and complement those in immunology, endocrinology, neuroscience, oncology, virology and cell biology. We are particularly interested in individuals whose research interests in molecular genetics relate to these other areas.

Applicants in all areas of molecular genetics are encouraged to apply. Candidates should hold the Ph.D. or M.D. degree and have a minimum of two years of postdoctoral experience. Successful candidates will become members of the Program in Molecular Genetics and will hold an academic appointment in an appropriate basic science or clinical department of Dartmouth Medical School. All faculty will be expected to establish and maintain a strong research program and participate in the teaching of medical and graduate students.

Please send a curriculum vitae, statement of research plans, and the names of at least three references to: MOLECULAR GENETICS SEARCH COMMITTEE CENTER FOR MOLECULAR AND CELLULAR MEDICINE DARTMOUTH MEDICAL SCHOOL HB 7300 HANOVER, NH 03755

Dartmouth Medical School is an equal opportunity employer. Women and members of minority groups are encouraged to apply.

FACULTY POSITIONS IN NEUROSCIENCE CENTER FOR MOLECULAR AND CELLULAR MEDICINE

DARTMOUTH MEDICAL SCHOOL

Dartmouth Medical School is planning a new medical center campus, to be completed in 1991. As part of the process, a Center for Molecular and Cellular Medicine is being established. Several tenure-track faculty positions are available now in Neuroscience and may be filled at any level (Assistant, Associate, or Full Professor). These appointments will strengthen existing activities in neuroscience, and complement those in molecular genetics, immunology, endocrinology and cell biology. We are particularly interested in individuals whose research interests in neuroscience relate to these other areas.

Applicants in all areas of cellular and molecular neuroscience are encouraged to apply. Candidates should hold the Ph.D. or M.D. degree and have a minimum of two years of postdoctoral experience. Successful candidates will participate in the development of the Program in Neuroscience and will hold an academic appointment in an appropriate basic science or clinical department of Dartmouth Medical School. All faculty will be expected to establish and maintain a strong research program and participate in the teaching of medical and graduate students.

Please send a curriculum vitae, statement of research plans, and the names of at least three references to: NEUROSCIENCE SEARCH COMMITTEE CENTER FOR MOLECULAR AND CELLULAR MEDICINE DARTMOUTH MEDICAL SCHOOL HB 7300 HANOVER, NH 03755

Dartmouth Medical School is an equal opportunity employer. Women and members of minority groups are encouraged to apply.

CLINICAL RESEARCH SCIENTISTS

Clinical Pharmacology

The Squibb Institute for Medical Research has a challenging opportunity available for a clinical pharmacologist to participate in our new drug development programs for cardiovascular agents, primarily antihypertensive and lipid-lowering drugs. The facilities of a 24-bed clinical pharmacology unit and analytical laboratory are available at a local medical center for the conduct of human investigation. This position also affords the opportunity to work closely with preclinical scientists at all levels.

Primary responsibilities involve the design, conduct, and reporting of Phase I and early Phase II clinical studies. Interest and experience in clinical pharmacokinetics and pharmacodynamics are desirable. Candidates should have a Ph.D. degree with two or more years research experience or a PhD with two or more years of clinical research in the pharmaceutical industry. A strong record of achievement including publication should be evident.

In addition to an excellent salary and comprehensive benefits package. The Squibb Institute for Medical Research offers the opportunity for exceptional scientists to pursue stimulating careers. This position is based at our Corporate Headquarters, a pleasant, semi-rural setting in Princeton, NJ convenient to both New York City and Philadelphia. Interested candidates should submit their C.V. in confidence to: The Squibb Institute for Medical Research, Human Resources Dept. #462, PO. Box 4000, Princeton, NJ 08543-4000. An equal opportunity employer.

Where science comes to life.

SQUIBB.
6 MARCH 1987
PHARMACOKINETICS: NIBRS TOXICOLOGY TRAINING PROGRAM—available for U.S. citizen or persons with permanent visa. Individuals with a recent Ph.D. in pharmacokinetics, applied mathematics, or statistics, with a biochemical background, are eligible. Work will involve modeling percutaneous drug and xenobiotic absorption in a novel isolated perfused skin preparation and derive physiological pharmacokinetic models of topical drugs and chemicals. The appointment is renewable annually for a maximum of 3 years, with a minimum starting salary of $30,000. Available immediately. Send resume and letters of reference to: Dr. J. R. Eriks, Laboratory of Toxicokinetics, School of Veterinary Medicine, North Carolina State University, Raleigh, NC 27606; telephone: 919-829-4200.

POSTDOCTORAL FELLOW—Applications are invited for a postdoctoral fellow in immunology. Numerical studies, patching and in vivo studies of capillary leak, gastrointestinal disease, and shock include neuropeptide release, ion transport, and cellular adhesion. Experience in animal studies is desirable. The beginning date is 6 April 1987 or later. Salary negotiable from $30,000 per year. Send curriculum vitae and three letters of reference by 31 March 1987 to: Dr. Alice Lowenbraun, Department of Pharmacology, University of Texas, 25 Animal Science/Veterinary Medicine Building, 1988 Fitzhugh Avenue, St. 615, Dallas, TX 75235. The University of Texas System is an Equal Educational Opportunity Employer and specifically invites applications from women and minorities.

The Australian National University. Applications are invited from suitably qualified men and women for the position of POSTDOCTORAL RESEARCHER in PHYSIOLOGICAL BIOCHEMISTRY with a background in molecular biology and/or protein chemistry, to work with the mucosal group which has established interests in the cell biology of inflammation, immunity and cancer relevant to human intestinal disease. Current projects include the regulation of plasminogen and tissue-type plasminogen activator by transforming growth factors, cell growth production by lamina propria cells, and antigen presentation in the intestine by dendritic-like cells. Applications should be addressed to: Dr. P. J. C. Shuster, The Australian National University, Canberra ACT 2601, Australia. The University is an Equal Opportunity Employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH SERVICE (ARS) NATURAL PRODUCTS CHEMIST POSITION—Northern Regional Research Center, Peoria, Illinois. ARS is seeking to fill a new multidisciplinary team (biochemist, microbiologist, and molecular geneticist) conducting fundamental research on tri-chloroethylene degradation. Research involves isolation, identification, and synthesis of toxins, precursors, and metabolites. Applicant should have a strong background in organic chemistry, microbiology, and/or molecular biology. A Ph.D. in chemical research is required. The position is GS 11/12 ($27,172 to $32,567). Additional information may be obtained by calling: Dr. Shoetwell at 309-685-4011, by writing 309-685-5159. Applications in response to this advertisement must be marked NRC. Send resume to: O. L. Shoetwell, Northern Regional Research Center, Peoria, IL 61604, by 20 March 1987.

Equal Opportunity Employer.

NEUROSCIENCE, THE KINSMEN LABORATORY (DEPARTMENT OF PSYCHIATRY, UNIVERSITY OF BRITISH COLUMBIA (UBC)) invites applications for an open-track position at the rank of ASSISTANT PROFESSOR. The position will be expected to develop an independent research program in neuroscience. Applicants should have a Ph.D. and/or M.D. degree. Applications will be considered on the basis of scientific productivity and potential. Salary is competitive. The position is available immediately. Send curriculum vitae, list of publications, a brief summary of research interests and addresses of references to: Dr. R. E. Gordon, Division of Neurological Sciences, Department of Psychiatry, University of British Columbia, 1205 W 12th Avenue, Vancouver, B.C., Canada, V6T 1Z5. In accordance with Canada Employment and Immigration regulations, priority for this position will be given to Canadian citizens and permanent residents.

Ph.D. RESEARCH SCIENTIST: Prospective investigator will join a Gynecologic Oncology Research Group using molecular and hybridization techniques, protein chemistry and cytogenetic techniques to investigate the causes, mechanisms and significance of changes in cell ploidy in neoplasia. The successful candidate will show a sustained record in refereed journals and be eligible for a faculty appointment. Will be responsible for interacting with Residents and Fellows in the Department of Obstetrics and Gynecology. Send resume to: Dr. D. A. Heyner, Ph.D., Director of Research, Department of Obstetrics and Gynecology, Albert Einstein Medical Center, 6225 Harvard Street, Suite 425, Philadelphia, PA 19141. Equal Opportunity Employer.

PHARMACOLOGIST/RESEARCH SCIENTIST: Requires Ph.D. in pharmacology with experience in the design and execution of in vitro and in vivo studies. Experience in the uptake of biochemical and/or pharmacological principles utilizing HTLC, e-ray densitometer, IR, DSC, and knowledge of in vitro evaluation techniques. Formulate and characterize various new drug delivery systems. Five-day, 40-hour week. $40,000 per year. Mail resumes to: NYS Job Service, 68 West Huron Street, Buffalo, NY 14202—order #1050997-041.061.974.

PHYSICAL SCIENCE EDUCATION: Full-time, tenure-track appointment. Rank and salary open. Requires Ph.D. in physics or chemistry with experience in science education or a doctorate in science education with experience in physics or chemistry. Responsibilities include instruction in lower-division physics, or chemistry courses and program development in physical science education. Interested applicants send curriculum vitae and three letters of recommendation to: Dr. Melvyn Duminett, Chair, Development Committee, Department of Chemistry, California State University, Bakersfield, 9001 Stockdale Highway, Bakersfield, CA 93311. The University is an Equal Opportunity Employer. Send application deadline this position has been extended from 15 February 1987. California State University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS—The Dana-Farber Cancer Institute is seeking to fill one research position at the postdoctoral level for a person interested in taking part in a combined molecular and biochemistry approach to understanding the role of growth factors (aFGF, bFGF, NGF and others) in regulating neural development and differentiation. We are interested in establishing how transmembrane signaling is executed in developing neural processes. We are particularly interested in genes involved in regulating gene expression and other differentiated properties. Experience in molecular biology and biochemistry is desired. Send curriculum vitae and names of three references to: Dr. John A. Wagner, J621, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02215. An Affirmative Action/Equal Opportunity Employer.
NATIONAL INSTITUTE ON AGING
NATIONAL INSTITUTES OF HEALTH
Public Health Service

The Laboratory of Neurosciences, National Institute on Aging, National Institutes of Health, invites applications for a Staff Fellowship position to study molecular biological aspects of aging brain and human neuropathological disorders. The successful candidate will be expected to carry out research that will complement some of the following areas of investigation: (1) characterization of the molecular changes in the aging rat brain and in the postmortem human brain in relation to Alzheimer’s disease; (2) examination of progesterone and growth factor expression in the CNS and in specific neuronal populations; (3) examination of altered gene expression in a trisomic mouse model of Down’s syndrome.

Applications are invited from individuals having a Ph.D., M.D., or combined degrees plus experience in either of the following: molecular approaches to gene expression, in situ hybridization of RNA, and immunohistochemistry. Salary range is $17,000 to $47,768 per annum commensurate with qualifications. Interested candidates should submit their Curriculum Vitae to Stanley I. Rapoport, M.D., Chief, Laboratory of Neurosciences, National Institute on Aging, Building 10, Room 3C 183, 9000 Rockville Pike, National Institutes of Health, Bethesda, Maryland 20814.

An Equal Opportunity Employer

MOLECULAR NEUROBIOLOGY
Institute for Advanced Biomedical Research
The Oregon Health Sciences University

Applications are invited for a senior level appointment in the area of molecular neurobiology. The position will be on the tenure track and will carry affiliate appointments as associate or full professor in one of the basic science departments of the medical school. An equivalent appointment will be made in the Institute.

The research interests of the Institute focus on the cellular and molecular bases of nervous system function. Of particular interest are applications from researchers applying modern molecular genetic techniques to analyze the development or function of the nervous system in either vertebrates, invertebrates or simple model systems.

Generous start-up packages are available and laboratory space will be assigned in the Institute’s recently completed 80,000 square foot facility on the OHSU campus.

Although there are no formal teaching obligations, members are encouraged, through affiliate appointments, to participate in the graduate education program of the School of Medicine. Included will be the opportunity to participate in the further development of the Institute, in the development of interdisciplinary research programs in molecular and cellular neurobiology, and in setting up graduate and post-doctoral training programs jointly with the basic science and clinical departments of the medical school.

Applicants should have an established, independent research program, a record of extramural research funding and the promise of further scientific accomplishment. Applications should include a curriculum vitae with a description of current research support, the names and addresses of at least three references, selected reprints, and a description of current and future research goals. Applications should be submitted by April 1, 1987 and addressed to

Dr. Michael Forte
Molecular Neurobiology Search Committee
Institute for Advanced Biomedical Research
The Oregon Health Sciences University
3181 S.W. Sam Jackson Park Road
Portland, Oregon 97201

The OHSU is an equal opportunity affirmative action employer.

MANAGEMENT AND TECHNICAL SERVICES COMPANY
A Subsidiary of General Electric Company

JOIN THE MATSCO TEAM PROVIDING SUPPORT TO THE NASA LIFE SCIENCES DIVISION AT HEADQUARTERS. MATSCO IS PARTICIPATING IN A DYNAMIC AND EXPANDING PROGRAM OF LIFE SCIENCES EXPERIMENTS SCHEDULED TO FLY ON FUTURE SPACE SHUTTLE AND SPACE STATION MISSIONS.

We are seeking a number of qualified, talented self starters for the following positions:

- **Senior Project Engineer (Life Sciences Flight Experiments Program)**
  Experience in space flight project management required. 10 or more years aerospace experience with expertise in life sciences helpful. Position requires a degree in an engineering discipline with preferable candidates having a Masters degree in engineering or business. The candidate will act as the direct interface with the Chief of Flight Programs at NASA Headquarters. The candidate will direct the efforts of several other engineers in providing support to the Flight Programs Branch for planning major activities for future missions. The group will provide analysis of factors affecting mission implementation, development, hardware requirements, and provide recommended options.

- **Engineers (Life Sciences Flight Experiments Program)**
  Candidates for these positions must have a degree in an engineering discipline, and have 5 or more years of aerospace experience. Candidates for these positions will support the Flight Programs Branch at NASA Headquarters in developing new life sciences missions for Space Shuttle and Space Station. The group will provide analysis of factors affecting mission implementation, development, and hardware requirements.

- **Senior Scientist (Biomedical)**
  The candidate for this position will have a Ph.D. or M.D. in medicine or related medical fields. The candidate should have 5-10 years of experience in aerospace medicine and/or life sciences. The candidate will be the key interface with the NASA Chief for Medical Operations at NASA Headquarters and will direct the efforts of other personnel in providing support for this group. A key element of the work will be to support the evaluation of responses to Announcements of Opportunity for experiments to fly on future Space Shuttle and Space Station missions. Other position requirements include planning, analysis, and documentation to support the implementation of experimental programs.

- **Senior Scientist (Biological)**
  The candidate for this position shall have a Ph. D. in biological sciences and 5-10 years of related experience in one or more of the following areas: Ecological Life Support Systems (CELSS). The candidate for this position will act as the principal bioscience interface between MATSCO and the NASA Life Sciences Division. The candidate will provide support to Life Sciences Division in the above three program areas. The candidate will work closely with experimenters and development to support NASA planning in the above three program areas. The candidate will research options and provide the documentation to support these options.

Please address responses to: Ms. Susan Wilson, Manager, Administration Management and Technical Services Company 600 Maryland Avenue Suite 209, West Wing Washington, D.C. 20024

TAMBRANDS INC., makers of First Response Diagnostic Kits, Tampons tampons, and Maxithin pads, with revenues approaching $10 million, is seeking to fill two positions in its Research and Development Center in Palmer, Massachusetts.

Candidates will have an M.S. or Ph.D. in Bacteriology, Immunology, Biochemistry or a related field of study and 2-3 years of relevant experience in the conception, formatting, optimization, development and scale-up of commercial diagnostic tests. Excellent communication, writing and interpersonal skills are required.

Responsibilities will include development of consumer diagnostic immunoassay formats, direction and evaluation of monoclonal and polyclonal antibodies, development and implementation of product testing procedures and protocols, and coordination of outside vendors in implementing product development and competitive product evaluation and equivalence testing.

We offer an attractive compensation package which includes paid health and life insurances, pension plan, educational assistance, a 401k thrift plan, and more.

Qualified applicants should forward their resume and salary history in strict confidence to: Manager of Employee Relations, TAMBRANDS, INC., P.O. Box 271, Palmer, MA 01069. We are an equal opportunity employer m/f/h/v.
TECHNICAL CHALLENGE; NATIONAL RECOGNITION

The Group on Science and Technology within the American Medical Association continues its commitment to furthering advances in the practice of medicine through extensive scientific activities. We are seeking individuals with medically-oriented credentials to assume these key administrative/scientific roles. Both positions will entail efforts within the scientific areas mentioned, and eventually into broader, related areas.

Division of Clinical Sciences
Carries academic appointment (anticipated to be at Associate Professor level, or higher) and responsibilities including directing administrative and scientific aspects within present departments of Public Health, Mental Health, Substance Abuse, and Personal Health.

Division of Basic Sciences
Newly created position with academic status as detailed above, and responsibility for directing administrative and scientific aspects within presents departments of Technology Assessment, Technology Management, and Biotechnology.

Candidates must possess an MD or earned Doctorate in a basic science discipline or in the medical sciences, along with an established record of scholarly achievement. Must have research and administrative experience entailing budgetary and writing responsibilities, plus a record of creative service to the medical community. Ability to effectively interact with colleagues and external agencies is essential.

The AMA offers numerous advantages including national visibility and stature, a highly professional environment, and compensation fully commensurate with qualifications. Please submit curriculum vitae to:

Karen D. Nixon
Div. of Placement/HCA-HEE
AMERICAN MEDICAL ASSOCIATION
535 N. Dearborn St.
Chicago, IL 60610
Equal Opportunity Employer

TRANSPLANTATION IMMUNOLOGIST

The Cleveland Clinic Foundation invites applications for a full-time position involving a primary appointment in the Department of Immunology & Cancer and a joint clinical appointment. Interested applicants must have an M.D. and/or Ph.D. degree with considerable postdoctoral experience in basic transplantation immunology. Candidates must be established investigators with evidence of high quality independent research, and a consistent history of external funding support. Essential qualities of the successful applicant are the ability to develop a research program bridging basic laboratory investigation with relevant problems in transplantation science, and a willingness to interact with basic scientists as well as transplant clinicians. Please submit a letter of application, curriculum vitae, and research interests to:

Andrew C. Novick, M.D.
Chairman, Department of Urology

The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.

AUSTRALIA
CSIRO
RESEARCH SCIENTISTS
(2 POSITIONS)
A526, 107–A541, 339
SPACE DIVISION AND SATELLITE REMOTE SENSING
DEPARTMENT OF ATMOSPHERIC RESEARCH
ASPENDALE, VIC.

GENERAL: The Division has for some years been developing a major system (CSISA) for reception and analysis of data from the operational meteorological satellites (AVHRR data in particular). The Division is also involved in collaboration with laboratories in the United Kingdom in the development and scientific applications of the ATS instrument to be flown on the ERS 1 satellite in 1989. In addition it is performing feasibility studies for new satellite instruments which are potential candidates for future space platforms (e.g. an imagersounder for a geostationary satellite, an instrument for remotely sensed surface pressure from a polar-orbit, and an on-board data compression device for studies of cloud distribution).

Space Research is a priority area within CSIRO and the Division is currently strengthening the resources devoted to the above activities.

1. Scientist—Satellite Remote Sensing—Reference number A1830

DUTIES: In association with other Divisional scientists, in general to pursue research associated with the developing international ATSR programme and with the rapidly expanding capabilities of the CSISA system. In particular to pursue research into applications of ATSR, AVHRR and associated satellite data—mainly for purposes of investigating atmospheric phenomena, but also for monitoring surface parameters such as vegetation indices, sea surface temperatures etc.

QUALIFICATIONS: A Ph.D degree or equivalent qualifications in physics or applied mathematics, with relevant experience in atmospheric science and remote sensing and (preferably) some experience in satellite data handling.

2. Scientist/Engineer in Satellite Instrumentation—Reference A1825

DUTIES: In association with other Divisional scientists, to undertake research into the engineering design and development of prototype satellite hardware, and in the logistic planning of subsequent phases of development of that hardware. The appointee would need to interact with local and overseas aerospace companies to achieve the maximum possible technology transfer to Australia.

QUALIFICATIONS: A Ph.D degree or equivalent qualifications in Physics or Engineering and experience in the overall process of satellite instrument development. Demonstrated ability to interact well with industry.

Both Positions—

TERMS: Indefinite with Australian Government superannuation benefits available. However, applicants interested in a term appointment of three to five years will be considered.

APPLICATIONS: Stating relevant personal particulars, including details of qualifications and experience, the names of at least two professional referees and quoting the appropriate reference number should be directed to:

The Chief
CSIRO Division of Atmospheric Research
Private Bag 5
MORDIALLOE VIC 3195, AUSTRALIA

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

NATIONAL INSTITUTE ON AGING
NATIONAL INSTITUTES OF HEALTH
Public Health Service

The Laboratory of Neurosciences, National Institute on Aging, National Institutes of Health, invites applications for a Staff Fellow position to study electrical properties of neuronal cell membranes during development in tissue culture. Research will involve: (1) growing mammalian neurons in culture; (2) examining action potential and membrane properties with intracellular microelectrodes; (3) performing voltage and current clamping to identify and characterize individual membrane currents; (4) using patch clamp recording techniques to characterize kinetics of individual ion channels and analyze channel number. Experiments will be done in relation to morphological and neurochemical analyses. The position is that of a Staff Fellow, Senior Staff Fellow or Medical Staff Fellow, with a salary of $17,000 to $47,788 per annum commensurate with qualifications. Appointments vary in duration from 1 to 7 years. The position is located in Bethesda, Maryland, and is available immediately.

Applications are invited from qualified individuals having a Ph.D., M.D., or both, and pertinent research experience. Interested candidates should submit their Curriculum Vitae to Stanley I. Rapoport, M.D., Chief, Laboratory of Neurosciences, National Institute on Aging, Building 10, Room 6B, 1990 Rockville Pike, National Institutes of Health, Bethesda, Maryland 20892.

An Equal Opportunity Employer
DIRECTOR, MICROBIOLOGY AND INFECTIOUS DISEASES PROGRAM

The National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health, is currently recruiting for the Senior Executive Service position of Director, Microbiology and Infectious Diseases Program (MDP), at a salary range between $63,135 and $70,000 PA. (If filled by a Medical Officer, selected candidate may be eligible for a Physician's Comparability Allowance up to $10,000, in addition to base salary). The Director, MDP, is one of four extramural program directors in the Institute with responsibility for conducting a nationwide and international research effort, through extramural sources, on the clinical and epidemiological aspects of infectious diseases. Eligible candidates must meet the qualifications requirements for Medical Officer, GS-601; or Health Scientist Administrator, GS-601 (a Ph.D. in the biomedical sciences, or an appropriate combination of comparable technical and professional knowledge). Candidates must have knowledge of the clinical and epidemiological aspects of infectious diseases, and, with laboratory, clinical and epidemiological research, and be conversant with the mechanisms used to accomplish research through extramural sources. Candidates must also have demonstrated competences to assume leadership responsibilities, and skills as a manager.

Interested candidates should submit Application for Federal Employment, SF-171 (available at all Federal Job Information Centers and Federal Personnel Offices), C.V. and bibliography to the address below. Resumes alone are not acceptable applications for the Senior Executive Service.

Mrs. Janie R. Lacy
Personnel Officer, NIAID
National Institutes of Health
9000 Rockville Pike
Building 31, Room 7A33
Bethesda, Maryland 20892

The names of nominees may be phoned in to Dr. John Gallin on (301) 496-3006. U.S. citizenship required.

An Equal Opportunity Employer

PROGRAM LEADER
ATMOSPHERIC DYNAMICS AND METEOROLOGY

Ames Research Center (35 miles south of San Francisco) is seeking a senior investigator to lead its dynamics and meteorology program. The purpose of the program is to advance understanding of those dynamic processes that affect the atmosphere's chemical composition and climate. Of particular interest are processes on spatial scales amenable to aircraft studies.

Primary responsibilities are: 1) Directing airborne experiments using meteorological forecasts developed by the incumbent or by others under his/her direction; 2) Providing meteorological analyses after airborne missions, and leading the effort to integrate diverse aircraft measurements (state variables, trace constituents, radiation) with meteorological analyses so as to form a coherent scientific whole; 3) Maximizing the productivity of data analysis and modeling activities by publishing his/her own results and by working with experimenters and theoreticians to develop joint publications; and 4) Designing, advocating, and obtaining funding for new experiments and projects that focus available platform aircraft, experimental, and theoretical skills on problems of current concern. Ph.D. or equivalent experience in meteorology or an atmospheric science required. Salary Range: $45,763-$69,976 commensurate with experience/education.

For further information write to the address below. Technical inquiries should be directed to Dr. Philip B. Russell, Chief, Atmospheric Experiments Branch, Mail Stop 245-5, NASA-Ames Research Center, Moffett Field, CA 94035, (415) 694-5404. Application for Federal Employment (SF-171), and OPM 1200 and 1203C (A-1 and B forms) should be filed by April 30, 1987. The necessary forms are available at the address below and at all Federal Job Information Centers. An Equal Opportunity Employer.

NASA-Ames Research Center
Personnel Management Branch, MS 241-32
ATTN: DH-3
Moffett Field, CA 94035

HOFFMANN-LA ROCHE

Director
Cardiovascular Research

Hoffmann-LaRoche, a research-intensive pharmaceutical company, headquartered in a suburban setting in New Jersey, 12 miles outside of New York City, is in search of a Department Director for Cardiovascular Research.

This individual will direct a preclinical department whose primary mission is exploratory research and discovery of drugs to treat ischemic heart disease.

The successful candidate will have a Ph.D. or M.D. and significant experience in mechanisms underlying cardiovascular diseases. A proven record of scientific accomplishments is required.

Prior management and drug development experience preferred.

Roche offers a professional environment and an attractive compensation package. Please send resume, present salary and publication list to: Position-AS, c/o Mrs. Eleanor M. Malone, Professional Employment & Staffing Specialist.

Hoffmann-LaRoche Inc.
Nutley, NJ 07110

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POSITIONS OPEN

POSTDOCTORAL NEUROBIOLOGIST
Opening to study chemosensory transduction mechanisms in vivo. Must be familiar with microelectrode recording techniques. Salary commensurate with experience and comparable to NIH levels. Should participate in new program in Neurosciences at Colorado State University. Interested applicants are encouraged to contact Dr. Stephen Pope, Professor and Chairman, Department of Anatomy, Colorado State University, Fort Collins, CO 80523. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available August 1987 for immunologist to study T cell migration and function in vitro and in vivo. Experience with cell migration techniques and tissue enzyme-labeling procedures is preferred. Please send resume with names of three references to:

Dr. R. G. Bell
James A. Baker Institute for Animal Health
New York State College of Veterinary Medicine
Cornell University
Ithaca, NY 14853

POSTDOCTORAL POSITIONS (three) available immediately to engage in projects on G-protein-mediated transmembrane signaling (Dr. Hissayi J. Arines), roles of extracellular matrix in development of the choroid plexus and oroticanurotic interactions (Dr. Diane A. Blake), and application of fluorescence spectroscopy and/or high pressure liquid chromatography to receptor-mediated signaling (Dr. Peter C. Liao). Salary up to $18,000. Our laboratories are contiguous and successful applicants will be encouraged to interact in related projects from these laboratories. Applicants should send curriculum vitae, statement of research experience, and names of three persons who may be contacted for reference to:

Dr. Hissayi J. Arines
Department of Biochemistry
Meharry Medical College, Nashville, TN 37208

POSTDOCTORAL POSITION available 1 July 1987 or sooner to study the regulation of polypeptide synthesis in plant cell cultures. Qualifications: Doctorate in biology, botany or biochemistry. Experience in plant cell cultures, enzymology and/or recombinant DNA technology desirable. Appointment in annual increments for up to 3 years. Salary range is $17,010 to $19,040 depending on experience plus full benefits. Send curriculum vitae and three letters of reference (noncitizens must include current visa status) before 15 April 1987 to:

Professor Sebastian C. Minocha
Department of Botany and Plant Pathology
University of New Hampshire (UNH)
Durham, New Hampshire 03824

UNH is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS AVAILABLE

POSTdoctoral positions are available immediately to study cardiac muscle contraction and relaxation. Candidates can choose among related projects led by six faculty. Up to 3 years of support will be provided by NIH Training Grant. Must be a U.S. citizen or permanent resident. To apply please send curriculum vitae and names of three references to:

Dr. Arnold M. Katz
Department of Medicine
University of Connecticut Health Center
Farmington, CT 06020
An Affirmative Action/Equal Opportunity Employer M/F/H.

RESEARCH ADMINISTRATOR. The Children's Memorial Hospital seeks a qualified individual to assist in the development of the administrative and human resource needs of its newly formed research organization. This position will be instrumental in formulating an effective program for the recruitment and administration of grant fund research projects by coordinating pre- and post-award phases of grant administration. Also, it will serve as a resource to research staff in regard to administrative and human resource needs. The position reports directly to the institution's Chief of Staff and its President. A bachelor's degree is required plus 3 to 5 years of progressively more responsible experience in research administration or a closely related field. Salary range to be determined with experience. Send resume in confidence to: The Children's Memorial Hospital, 2300 Children's Plaza, Chicago, IL 60614. Attention: Director of Personnel.

ANTICANCER DRUG DEVELOPMENT

WARNER-LAMBERT/PARKE-DAVIS has an immediate entry level opening for a scientist in its Cancer Research group.

The duties of this position will be to evaluate radiosensitizing activity of agents against tissue culture cell lines, conduct biochemical/cell biology studies to determine mechanism of action in a number of in vitro systems including multicellular spheroids, develop new models to predict radiosensitizing activity against human tumors, develop methods for assessment of normal tissue toxicity, collaborate with in vivo radiosensitizer efforts.

The successful candidate will have a Ph.D. or equivalent in radiation biology, pharmacology, or related discipline, 1-5 years postdoctoral training in radiobiology or cancer chemotherapy. Strong background in biochemistry and cell biology is desirable.

Our research facilities, adjacent to the University of Michigan campus in Ann Arbor, Michigan, are among the finest and best equipped in the world and are devoted exclusively to the discovery and development of new drugs. We offer excellent compensation, benefits and working environment. Interested candidates should forward resume together with salary requirements to:


"EQUAL OPPORTUNITY IN ACTION"
**CELL BIOLOGY**  
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As the acknowledged leader in supplying high quality cell culture media to the research/industrial communities for three decades, GIBCO Laboratories is now expanding its Cell Biology Research & Development Department to maintain its technical leadership.

There are immediate positions available at the B.S., M.S. and Ph.D levels investigating nutritional factors associated with the regulation of cellular proliferation and biological production.

Our multi-disciplinary team assumes project management responsibility, with ample opportunity for diversified experience and career advancement. This includes a blend of bench level research, technical supervision, interaction with other GIBCO departments and active collaboration with investigators in academia and the private sector.

Training and laboratory competence in the following areas is highly desirable:
- Development of defined or serum-free cell culture systems
- Development of immuno-diagnostic assays
- Isolation and characterization of functionally active factors from biological fluids
- Analytical separation by HPLC or ion chromatography

GIBCO offers an attractive and competitive benefits and compensation package along with an informal life style that affords candidates the opportunity to enjoy the outdoor and cultural environment of the Great Lakes, Niagara and Ontario-Toronto areas.

For more information please send your resume and curriculum vitae, in confidence, to:

Harry W. Cardin  
*Personnel Manager*  
GIBCO Laboratories  
Life Technologies, Inc.  
3175 Staley Road  
Grand Island, NY 14072  
(Seven miles from Niagara Falls)

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**Cooper Laboratories Inc.**  
*New Product Development*

Cooper Laboratories Inc., a wholly-owned subsidiary of Cooper Development Company, located in Mountain View, California, focuses on advanced biotechnologies applied to therapeutic products for respiratory diseases.

The Company pursues development of innovations such as liposome encapsulation of respiratory therapeutics as well as recombinant DNA sourced proteins for treatment of genetically-deficient emphysema patients.

Our aim is to build a pharmaceutical business with particular focus on pulmonary therapeutics. Consider the following openings in key areas:

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**PURIFICATION BIOCHEMIST**

Responsible for the development of efficient chromatographic separation processes for therapeutic proteins from recombinant sources. Our ideal candidate should have substantial experience in modern separation techniques, including HPLC. The position requires a PhD in Biochemistry or equivalent.

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**LIPID CHEMIST**

Responsible for the purification and synthesis of phospholipids, as well as for the large scale phospholipid separation processes. An MS in Pharmaceutical Chemistry (or related field) with solid industrial experience or a PhD is required.

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**BIOCHEMIST/LIPOSOMES**

Collaborate with lipid chemists and pharmacologists to investigate the therapeutic efficacy of liposome encapsulated drugs designed to treat diseases of the respiratory tract. Position will report directly to the Director of Pharmacology Research.

Requirements include a Ph.D. in Biochemistry or Physiology with emphasis in lipid metabolism and the delivery of drugs utilizing liposomes and 2 years post-doctoral training.

In addition to a professional and stimulating work environment, we offer excellent salaries and benefits. For immediate consideration, please send resume with salary requirements to Professional Employment Dept. 536, Cooper Laboratories Inc., 3145 Porter Drive, Palo Alto, CA 94304. An equal opportunity employer: Principals only, please.

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Cooper Laboratories Inc.
POSITIONS OPEN

**RESEARCH ASSISTANT PROFESSOR, Ph.D. or M.D.** — Cardiac factor stimulated mRNA transcription. Candidate must be familiar with methodology for quantifying mRNA sequences and cDNA cloning. Independent work within 1 year. Position is Equal Opportunity/Affirmative Action Employer. Send curriculum vitae to: Dr. Carol B. Sutcliffe, Cardiovascular Research Institute, School of Medicine, Oregon Health Sciences University, P.O. Box 751, Portland, OR 97207. EEO/AA.

**RESEARCH ASSOCIATE WANTED** to conduct psychophysical studies of reading and image recognition in people with low vision. Applicants must have a Ph.D. and a strong background in visual science. Experience in psychophysical or psychometric studies is desirable. Candidates should submit a curriculum vitae, three letters of reference, reprint, and a statement of research interests. Current salary is $18,000. Position is open immediately. Contact: William E. Leddin, Department of Psychology, University of Minnesota, 75 East River Road, Minneapolis, MN 55455. Application deadline: 1 April 1987.

The University of Minnesota is an Equal Opportunity Employer and specifically invites applications from women and minorities.

**RESEARCH ASSOCIATE** who will design and conduct experiments of basic research aimed at the identification of the effects of biological therapy in patients who are cancer or acquired immune deficiency syndrome (AIDS) patients. Study the capacity of the cell from the same type of patients to produce relevant immunostimulatory mediators and their modification under a variety of biological treatments. Duties also include cell cultures of malignant and normal human cell lines, bioassays and immunostudies of cytokines (cytokine-stimulating factors, interleukins, interferons, and so forth) identification and characterization of possible interactions among them, design of optimal combinations, and doses and schedules in vitro that could help for the optimization of treatments. Experience in the identification of mononuclear and polynuclear antibodies and its coupling to biologicals. Supervision of laboratory personnel. Analysis, presentation of experimental data. Must complete 2 years of postdoctoral training and 1 year of biotechnological experience: $30,000 and $36,000 for first year positions and $40,000 for second year positions. Contact: Texas Employment Commission, Houston, TX, or send resume to: Texas Employment Commission, Placement Unit, Austin, TX 78718, IO. $45131960. Ad posted for by an Equal Employment Opportunity Employer.

**RESEARCH SCIENTIST** The Johnson & Johnson Biotechnology Center has an opening for a human immunologist. The position requires interaction with a multidisciplinary group studying the development of therapeutic vaccines and vaccines. The successful candidate will be responsible for conducting experiments that will complement the expertise in molecular biology and immunology already available to the research group. Ph.D. degree in immunology, 3 years experience in postdoctoral studies, with publication record, and experience in the development of new therapeutic vaccines. Interested applicants should send curriculum vitae and description of research interests to: Ms. Patricia Pagan, Personnel Administrator Johnson & Johnson Biotechnology Center P.O. Box 8289 LIE Francis 9348 An Affirmative Action/Equal Opportunity Employer.

**POSITIONS OPEN**

**RESEARCH INVESTIGATOR** Perform research on the molecular and functional basis of endoplasmic reticulum calcium transport. Ph.D. degree in biochemistry or related discipline required. Work will be conducted in the laboratory of a senior investigator at a major university. Experience in thin sectioning and high resolution electron microscopy and immunolabeling required. Send Curriculum Vitae to: Dr. E. M. Layfield, Department of Anatomy, University of Pennsylvania, Philadelphia, PA 19104.

**RESEARCH SCIENTIST POSITION** in Cell Biology, UK-Canada Institute, University of Bath, Bath BA2 7AY, UK. The successful candidate will be expected to conduct experiments on the role of cytoskeletal elements, including microtubules and intermediate filaments, in the organization of the cell at the subcellular level. The appointee will be expected to interact with members of the research group in the field of cell biology and to establish an independent research program. The appointment is for a fixed term of 3 years, starting in September 1987, with the possibility of extension. The successful candidate will be expected to participate in the supervision of research students and to spend at least 10% of the working time on teaching duties (e.g., undergraduate laboratory supervision). Salary will be £15,000-£20,000 per annum. Applications are invited from candidates who have a Ph.D. or equivalent degree and have a strong background in cell biology, either in the fields of cytoskeletal structure and function or in the fields of cell surface biology. The appointment is expected to begin in September 1987. More details are available from Janet Wilson, Department of Biological Sciences, University of Bath, Bath BA2 7AY, UK. Applications should be submitted by 1 May 1987.

**RESEARCH SCIENTIST** at the University of Colorado at Boulder is required to conduct research and teach courses in the area of psychophysical measurement and experimentation with applications in the social sciences, particularly in the area of attention and perception. Applicants should have a Ph.D. in psychology or a related area. Teaching responsibilities include courses in psychophysics, and optional courses in related areas. Research responsibilities include teaching and independent research. Appointments are available beginning October 1, 1987, and are renewable. Salary is negotiable. Application review will begin on 1 May 1987. Applications must be received by 15 May 1987. The University of Colorado at Boulder is an Equal Opportunity Employer - Affirmative Action/Equal Employment Opportunity Employer.

**RESEARCH SCIENTIST POSITION IN CLIMATE** at the University of California, Los Angeles. The successful candidate will be expected to conduct research in the broad area of climate science, with a particular focus on the role of aerosols in climate forcing. Research activities will be conducted in the laboratory of Dr. J. M. Prospero, School of Geosciences, University of California, Los Angeles, CA 90024. The successful candidate will be expected to develop an independent research program and to participate in the supervision of graduate students and postdoctoral researchers. The appointment is expected to begin on 1 July 1987. The successful candidate will be expected to contribute to the teaching mission of the university, including teaching courses in atmospheric sciences. Applications are invited from candidates who have a Ph.D. in atmospheric sciences or a related area. The position is available beginning on 1 July 1987. Salary is negotiable. Application review will begin on 1 May 1987. Applications must be received by 15 May 1987. The University of California, Los Angeles, is an Equal Opportunity Employer - Affirmative Action/Equal Employment Opportunity Employer.

**BIOLOGY DEPARTMENT** Indiana University of Pennsylvania (IUP) invites applications in our Biology Department for a TENURE-TRACK POSITION in invertebrate zoology (preferenced to applicants with a background in aquatic systems) for September 1987 at the assistant professor level. A Ph.D. and teaching experience is preferred. Commitment to quality teaching and research is essential. Duties will primarily include undergraduate teaching in the animal biology course for majors and the general biology course for nonmajors. The candidate will be expected to direct graduate students and pursue research in his/her area of expertise. The position exists for the duration of the three-year period of the tenure track. Minority candidates are encouraged to apply. Send letter of application, curriculum vitae, transcripts, statement of research and teaching interests, and three letters of recommendation to: Dr. J. C. Nenke, Zoology Search Committee, Biology Department, Indiana University of Pennsylvania, Indiana, PA 15705. Telephone: 412-357-2819 or 357-2354. Deadline for receipt of application is 10 April 1987.

**TOXICOLOGIST** The Bay Area Air Quality Management District (BAAQMD) in San Francisco, CA, is seeking a full-time toxicologist with experience in risk assessment of environmental toxicants, evaluation of environmental data and reports, and analysis of health impacts. Ph.D. and 3 years experience desired; $3663 per month to start. Send résumé to: BAAQMD, 939 Ellis Street, San Francisco, CA 94109. Equal Opportunity/Affirmative Action Employer.
Ph.D. Microbiologists/Biochemists

Ongoing research and new product development has been a driving force behind Abbott Laboratories' premier position as a $3.8 billion world leader in the health care products industry. Our fastest growing Division—Diagnostics—has a history of successes, with major breakthroughs in the detection of Hepatitis B and German Measles, and most recently, in AIDS testing. Currently, we seek Ph.D. Microbiologists or Biochemists to help support the continuing efforts of this division.

The successful candidates will have at least 2-3 years post-doctoral research experience in Immunology, Molecular Biology or Biochemistry, with relation to parasitic and/or bacterial infectious organisms.

Rated one of the nation’s five best managed companies for 1986 by Dun’s Magazine, Abbott remains committed to excellence in all areas. We provide an outstanding scientific environment along with excellent salaries and benefits, including profit sharing and stock retirement plan. We’re headquartered in an attractive suburban setting, just 30 miles north of Chicago. For confidential consideration, please send your resume with salary history to: Stephanie Mondello/Corporate Placement, Dept. 53-6, Abbott is an Affirmative Action Employer.

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FACULTY AND STAFF POSITIONS
BIOLOGY DEPARTMENT
TEXAS A&M UNIVERSITY

Faculty Position. A tenure track position is available at any level in the area of Molecular Genetics of Microorganisms. The successful candidate must have demonstrated significant potential to develop a vigorous extramurally funded research program. Researchers in yeast molecular biology are especially encouraged to apply. Contact: Microbiology Search Committee, Dr. Susan S. Golden.

Sealer Scientist is sought to supervise a state of the art DNA sequencing and Synthesis Laboratory. Applicants must be experienced with both Maxam and Gilbert and Dideoxy sequencing procedures, and with automated oligonucleotide synthesis. Opportunity for pursuit of individual research interests and providing sequencing service and instruction for others. Ph.D. required, or at least three years of participation in sequencing projects. Approximate salary $30,000, but commensurate with experience. Contact: Dr. Timothy C. Hall.

Electronics Repair and Maintenance Support Engineer. Applicants must have field experience in repair and maintenance of biological and biochemical laboratory equipment. Ability to design and construct required modifications to such equipment and conduct training sessions is essential. Contact: Dr. Timothy C. Hall.

Additional Positions. Postdoctoral and Graduate Research Positions are available within the department. Contact: Dr. Timothy C. Hall.

Applications, including a C.V., a description of goals and interests, and names of three references with addresses and phone numbers, should be mailed directly to the contact person for each position at the following address.

BIOLOGY DEPARTMENT, TEXAS A&M UNIVERSITY
COLLEGE STATION, TX. 77843-3258

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Ph.D. Microbiologists/Biochemists

Ongoing research and new product development has been a driving force behind Abbott Laboratories' premier position as a $3.8 billion world leader in the health care products industry. Our fastest growing Division—Diagnostics—has a history of successes, with major breakthroughs in the detection of Hepatitis B and German Measles, and most recently, in AIDS testing. Currently, we seek Ph.D. Microbiologists or Biochemists to help support the continuing efforts of this division.

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FACULTY AND STAFF POSITIONS
BIOLOGY DEPARTMENT
TEXAS A&M UNIVERSITY

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BIOLOGY DEPARTMENT, TEXAS A&M UNIVERSITY
COLLEGE STATION, TX. 77843-3258

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POSTDOCTORAL POSITIONS

Sealer Postdoctoral Research Associate (Molecular Virology). A skilled molecular biologist is required to work in the area of Brome Mosaic Virus replication. This system is one of very few for which a cell-free replicase system exists. Duties involve site-directed mutagenesis of specific regions of the BMV genome and analysis of these mutants in vitro and in vivo. Considerable experience (over two years post-Ph.D.) in cloning and synthesis of in vitro transcripts is necessary; familiarity with viral systems is preferred. The stipend, approximately $30,000, will be commensurate with experience and performance. Contact: Dr. Timothy C. Hall.

Postdoctoral Research Associate (Plant Molecular Biology). Projects include analysis of cis and trans acting factors involved in the ontogenetic control of plant gene expression and molecular analysis of early events of plant embryogenesis. Experience in recombinant DNA techniques and DNA sequencing are required; additional experience in plant gene transfer methods, in situ hybridization or analysis of DNA-protein interactions is preferred. Base stipend is $22,000, but commensurate with performance and experience. Contact: Dr. Terry L. Thomas.

Postdoctoral Research Associate (Molecular Biology of Photosynthesis). Research projects include studies of expression and regulation of photosynthetic genes of cyanobacteria, site-directed mutagenesis of specific genes and analysis of altered membrane proteins. Candidates should have experience in one or more of the following areas: molecular biology, microbial genetics or plant physiology. Salaries are competitive. Contact: Dr. Susan S. Golden.

Postdoctoral Research Associate (Molecular Parasitology). Project involves cloning and analysis of gene products from Schistosoma mansoni, but prior experience in parasitology is not required. Applicants should be knowledgeable in the preparation and characterization of both cDNA and genomic DNA libraries and DNA sequencing technology. Salaries are competitive. Contact: Dr. Michael Kemp.

Applications, including a C.V. and the names of three references with addresses and phone numbers, should be mailed directly to the contact person for each position. Texas A&M University is an equal opportunity employer.

BIOLOGY DEPARTMENT, TEXAS A&M UNIVERSITY
COLLEGE STATION, TX. 77843-3258
POSITIONS OPEN

DEPARTMENT OF CHEMISTRY

Applications are invited for TWO TENURE-TRACK FACULTY POSITIONS to begin 1 June 1987 or soon thereafter:

1) Organic Chemistry
2) Biochemistry or related field

In teaching and research, the successful candidates will conduct research projects and will participate in teaching at undergraduate and graduate levels. Lectures are to be given in French. The requirements for positions are as follows: Ph.D. in chemistry with research experience in chemistry. The requirements for position 2 are as follows: Ph.D. in biochemistry or chemistry with research experience related to biochemistry.

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

Candidates are invited to send a detailed curriculum vitae and an outline of a proposed research project as well as the names and addresses of three references, before 30 April 1987. to: Mr. Andre Hade, Chairman, Chemistry Department, University of Quebec in Montreal, P.O. Box 8888, Branch A, Montreal (Quebec), H3C 3P8, Canada.

COURSES

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Further information contact:

Dr. P. McCormack, M.D., Ph.D.
Division of Life Sciences (CODE EB)
NASA, Headquarters
Washington, DC 20546
Telephone: 202-453-1543
Deadline 15 April 1987

GRADUATE STUDIES

GRADUATE STUDIES: University of Nevada Graduate Training Program in Pharmacology (1987 to 1988 academic year) is accepting applications for predoctoral study and positions in areas of neuropharmacology, autonomic and cardiovascular pharmacology (with emphasis on regulation of vascular and airway smooth muscle (cardiac, muscle) and neurovascular toxicity. This is a Ph.D. program open to highly qualified individuals with a bachelors degree in the sciences. For more information contact:

Dr. Bierkamp, Director, Graduate Program, Department of Pharmacology, University of Nevada School of Medicine, Reno, NV 89557-0046. Affirmative Action/Equal Opportunity Employer.

RESEARCH PROPOSALS

CALL FOR RESEARCH PROPOSALS

The Center for Alternatives to Animal Testing of the Johns Hopkins School of Public Health is soliciting PROPOSALS. These research proposals should provide the fundamental knowledge base to develop alternative methods to whole animals for the safety evaluation of commercial products.

The Center encourages the development of methods using human cell/line in addition to other in vitro approaches to toxicity evaluation. Funds are available for studies of skin and eye irritation, inflammation, acute toxicity and other organ-specific toxicity. At present, funds are unavailable for mutagenicity and carcinogenicity.

Guidelines for preparation of proposals can be obtained from: Mrs. Joan Poling, The Johns Hopkins Center for Alternatives to Animal Testing, 615 North Wolfe Street, Baltimore, MD 21205; telephone: 301-955-3343.

Deadline for submission of research proposals—29 May 1987.

SUMMER INSTITUTE

The National Institute on Aging announces a SUMMER INSTITUTE IN RESEARCH ON AGING, 12 TO 22 JULY 1987, in Baltimore, Maryland. The Summer Institute is sponsored by several organizations and foundations is directed at new researchers and provides an opportunity for intensive exposure to issues and challenges of research on aging. The deadline for submitting applications is 15 April 1987. For further information write to: Susan Walton, National Institute on Aging, Building 31, Room 2C05, National Institutes of Health, Bethesda, MD 20892.

CALL FOR POSTERS

CALL FOR POSTERS

The Center for Alternatives to Animal Testing (CAAT) at the Johns Hopkins School of Public Health is sponsoring its 5th annual international symposium:

PROGRESS IN IN VITRO TOXICOLOGY

This symposium will be held in Baltimore on 4 to 5 November 1987. We encourage the submission of abstracts for poster presentations. Posters of academic endeavors and organizations offering products of importance in vitro studies are encouraged.

If you wish to receive instructions for poster presentations or would like to be placed on the CAAT mailing list, please contact the Johns Hopkins Center for Alternatives to Animal Testing, 615 North Wolfe Street, Baltimore, MD 21205; telephone: 301-955-3343. Deadline for submission of poster abstracts—1 October 1987.

TRAINING GRANT

NEUROBIOLOGY

UNIVERSITY OF COLORADO SCHOOL OF MEDICINE

Postdoctoral position on NIH Training Grant available 1 July 1987 or later. Successful candidate may work with any of the training faculty: W. J. Betz, Synaptic formation at the neuromuscular junction; J. J. Caldwell, Control of ion channel expression and localization in membranes. T. E. Einger: Innervation of, and neurotransmitters in the gustatory system. P. A. Fuchs: Electrical properties and development of cochlear hair cells. S. R. Levinson: Molecular biology of the sodium channels. A. R. Martin: Properties of postsynaptic inhibitory channels. W. O. Wickelgren: Modulation of ion channels by neurotransmitters. Candidates, who must be permanent residents of the United States should send curriculum vitae, letter stating area of research interest, and three letters of reference to: Dr. R. Martini, Department of Physiology, C240, University of Colorado School of Medicine, 4200 East Ninth Avenue, Denver, CO 80262. An Affirmative Action/Equal Opportunity Employer.

TRAINING PROGRAM

POSTDOCTORAL TRAINING PROGRAM IN THE CELLULAR/MOLECULAR BIOLOGY OF AGING

Positions are available for postdoctoral fellows (Ph.D. and/or M.D.) to obtain 2 years of specialized training in the methods and models of research on aging. This training program is supported by NIH grants, including the University of Pennsylvania/Wistar Institute (Drs. V. Cristofalo, D. Kritchevsky, E. Levine), Temple University (Drs. R. Baserga, N. Duker, A. Schwartz), the University of Michigan (Dr. N. J. Morin), and the Medical College of Pennsylvania (Dr. J. J. Reilly) and the Merck Sharp and Dohme Research Laboratories (Drs. M. Bradley and W. Nichols). Research emphases include: the role of aging in disease, genetic and environmental effects on aging, the relationship between aging and the regulation of growth and reproduction, and the role of the immune system in the aging process. The program provides opportunity for research in the areas of organic and inorganic chemistry, personality and psychiatric disorders, the role of aging in the growth process, and the role of host resistance in the aging process. The program provides opportunities for research in the areas of organic and inorganic chemistry, personality and psychiatric disorders, the role of aging in the growth process, and the role of host resistance in the aging process. The program provides opportunities for research in the areas of organic and inorganic chemistry, personality and psychiatric disorders, the role of aging in the growth process, and the role of host resistance in the aging process.

PROGRAM

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with a doctorate-degree in chemistry the opportunity to earn the doctor of optometry (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: Dr. D. M. Chausathy, Ph.D.-O.D. Program Director, The New England College of Optometry, 424 Beacon Street, Boston, MA 02115; telephone: 617-266-2030, extension 147.

FELLOWSHIPS

HARVARD SCHOOL OF PUBLIC HEALTH

POSTDOCTORAL FELLOWSHIPS

Interdisciplinary Programs in Health (IPH) invites applications from promising graduates of advanced degree programs in the natural or social sciences interested in turning to research in environmental health and public policy. The program focuses on the specific and analytical foundations for environmental decisions. In addition to individual research, recent group projects include workshops on the molecular and cellular basis of toxicity, and the susceptible individual and environmental regulation. Further studies will be designed to address the needs of Fellows. Studies on the assessment of integrated exposure and dose, and on uncertainty in environmental decision making are under consideration.

Fellows will be appointed for a term of 1 year starting September 1987. Award may be renewed. Application deadline: 13 April 1987. Decisions announced in May. For information, write to:

Professor Donald F. Horny
Director, IPH
Harvard School of Public Health
665 Huntington Avenue
Boston, MA 02115

RESEARCH FELLOWSHIP ON GROWTH FACTORS

A 2- or 3-year postdoctoral fellowship for a Ph.D. or M.D. with previous laboratory training, who wishes to explore the function of growth factor receptors in normal and malignant cells, using biochemical, immunological, and molecular genetic approaches. Send curriculum vitae and references to: John Mendelsohn, M.D., Head, Laboratory of Surgery, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. An Equal Opportunity Employer M/F/U.

SHORT-TERM GENETIC SEQUENCE COMPUTER ANALYSIS TRAINING FELLOWSHIPS—Available at the Dana-Farber Cancer Institute and Harvard School of Public Health. Housing and domestic travel support provided for 1 to 3 weeks. Positions open to graduate students, postdoctoral fellows, and senior researchers in molecular biology. Positions provide access to software and/or computational expertise for collaborative research and/or collaborative research genetic sequence problem support for. For further information contact: Susan Tokel, M.D., B.A., Molecular Biology and Computer Research Resource, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. An Affirmative Action/Equal Opportunity Employer.

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SCIENCE, VOL. 235
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