POSITIONS OPEN

ASSISTANT PROFESSOR. The Department of Microbiology and Immunology at Wright State University is inviting applications from candidates with interests in the molecular biology, pathogenic mechanisms, or bacterial physiology. Applicants should possess a Ph.D. or M.D. and have recently completed their postdoctoral fellowship. The department is located within the School of Medicine and the College of Science and Mathematics. Teaching responsibilities include medical and Ph.D. level graduate programs. This position is a 12-month tenure-track appointment with available start-up funds and incentives. Send curriculum vitae, three letters of reference, and a statement of research interests to: Neal G. Eades, Ph.D., Chair, Department of Microbiology and Immunology, 409 Oelman Hall, Wright State University, Dayton, OH 45439. Review of applications will begin 15 June 1991 and continue until a suitable candidate is identified. Women and minorities are encouraged to apply. Wright State University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR. ORGANIC CHEMISTRY

WEST VIRGINIA STATE COLLEGE

Recent Ph.D. in organic chemistry for tenure-track position in ACS-certified Chemistry Department of a 4-year liberal arts college. Strong commitment to teaching undergraduate organic chemistry lecture and laboratory courses to first-generation, nontraditional, and minority students and developing undergraduate research programs. Excellent new building and campus facilities. Salary and rank negotiable. Excellent benefit plans. Send application letter, resume, certified undergraduate and graduate transcripts, and three letters of recommendation by 1 June 1991 to:

Dr. Barbara J. Oden

Vice President for Academic Affairs

West Virginia State College

P.O. Box 1000

Institute, WV 25112-1000

An Equal Opportunity/Affirmative Action Employer.

TRANSLATION IMMUNOLOGIST

LOYOLA UNIVERSITY OF CHICAGO

The Loyola University of Chicago cardiac transplantation program has an immediate opening for an immunologist to establish a high quality basic research program in transplantation immunology. A tenure track will be granted in the Departments of Medicine and Microbiology and Immunology at the ASSISTANT OR ASSOCIATE PROFESSOR levels. Candidates should have a Ph.D. and a record of established research in the area of transplantation tolerance, allograft rejection, and/or allograft vascular disease. Candidates must be willing to participate in graduate and medical students training. Who are we? We are a successful candidate is expected to obtain extramural funding, the salary is not dependent on grants. Please submit curriculum vitae, two copies of relevant publications, letters of recommendation, and three supporting letters to:

Maria Rosa Costanzo-Nordin, M.D.

Medical Director

Cardiac Transplant Program

Loyola University of Chicago

Maywood, IL 60153

FLORIDA INTERNATIONAL UNIVERSITY

GLASER VISITING PROFESSORSHIP IN BIOLOGICAL SCIENCES

Applications are solicited from distinguished scientists interested in visiting the Department of Biological Sciences at Florida International University (FIU). The State University of Florida at Miami. FIU is a dynamic and growing public university with 23,000 students. The Department of Biology has 23 faculty and 60 graduate students (M.S. and Ph.D.). The Glaser Professor will offer a short course in his/her specialization over a 2- to 3-week period (expected to include the 1991-92 academic year), give a departmental lecture, and a university library of general interest. Remuneration is $8000. Apply with letter of interest, curriculum vitae, and full list of publications. Closing date is 1 June 1991. Send application to:

Dr. Laurie Richardson, Glaser Committee Chair, Department of Biological Sciences, Florida International University, Miami, FL 33199.

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

POSITIONS OPEN

THE UNIVERSITY OF CALGARY

SMOOTH MUSCLE RESEARCH

The University of Calgary Faculty of Medicine invites applications for faculty positions at the ASSISTANT PROFESSOR level with research interests in smooth muscle structure and/or function any of the following disciplines: biochemistry, molecular biology, physiology, pharmacology, cell biology, and pathology.

Well-qualified candidates must complete successfully for the Ph.D. or M.D. degree appropriate to the position. Applications should be sent to the Alberta Heritage Foundation for Medical Research, the Medical Research Council of Canada and/or other equivalent agencies, and will have 75% of the time protected for research. Applicants must be in the Ph.D. and research training at the postdoctoral level. Remuneration will be commensurate with qualifications and experience.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary has an Employment Equity Program. Women and persons from all qualified candidates, including visible minorities, people with disabilities. Please submit curriculum vitae, a statement of aims and research interests, and three letters of reference to:

Dr. M. P. Walsh

Department of Medical Biochemistry

The University of Calgary

3330 Hospital Drive N.W.

Calgary, Alberta, Canada T2N 4N1

FOREST ENTOMOLOGIST. The Department of Entomology, Michigan State University, is seeking an ASSISTANT PROFESSOR (12 month, tenure track) to develop and maintain a strong extension, research, and teaching program in forest entomology, with additional responsibilities in Christmas tree plantations. The applicant should have a Ph.D. and expertise in areas such as insect sampling methods, population dynamics, insect-plant interactions, and insect control. A successful candidate will be expected to engage in cooperative interdepartmental and interagency research programs for grey moth management. Salary and benefits are competitive, and availability will be in the area of forest and shade tree insect management principles with other opportunities in undergraduate and graduate education. Applicants should submit (i) a letter describing qualifications and career goals, (ii) curriculum vitae, (iii) a list of publications (and key reprints, (iv) transcripts, and (v) names, addresses, and telephones of three to five references. Send application to:

Dr. Stuart Gage, Search Committee Chairperson, Department of Entomology, Michigan State University, East Lansing, MI 48824-1115. Telephone: 517-353-4665; FAX: 517-353-4354. Target closing date is 1 June 1991. MSU is an Affirmative Action/Equal Opportunity Employer. Equal opportunity position.

DOROTA NYSZ. (Pending approval with the Office of the Provost.)

DIRECTOR, BONE MARROW TRANSPLANTATION PROGRAM

The Departments of Medicine and Pediatrics and University of North Carolina (UNC) Hospitals are pleased to announce the opening of a combined adult and pediatric bone marrow transplantation program. A director of this program is being recruited for a tenure-track position in the Division of Medical Oncology. Academic rank will be based on experience. Facilities available include an initial unit of four beds with expansion opportunity, a dedicated nursing and professional support staff including housestaff, fellows, coordinators, ancillary research and clinical support staff and the opportunity to help recruit a new medical faculty. Research interests may include, but are not limited to immunologic restoration, applications of hematopoietic growth factors, genetic therapy or pharmacology of drug resistance. Excellent facilities are available. The successful applicant will be Board-certified in internal medicine or equivalent discipline, be eligible for practice in both internal medicine and hematology and oncology and have demonstrated clinical and research expertise in allogeneic and autologous bone marrow transplantation. Application letter should include a current curriculum vitae and references to: Howard Ozer, M.D., Ph.D., Chief, Division of Medical Oncology, CB# 7305, Old Clinic Building, UNC Medical Center, Chapel Hill, NC 27599. The University of North Carolina is an Affirmative Action/Equal Opportunity Employer and encourages applications from female and members of minority groups.
POSITIONS OPEN

ASSISTANT PROFESSOR
PHYSICAL CHEMISTRY
WEST VIRGINIA STATE COLLEGE

Recent Ph.D. in physical chemistry for tenure-track position in ACS-certified Chemistry Department of a 4-year land-grant state college to teach freshman chemistry lecture courses and physical chemistry lecture and laboratory courses. Strong commitment to teaching first-generation, nontraditional, and minority students, upgrading the physical chemistry laboratory, and developing undergraduate research programs. Start 19 August 1991. Salary and rank negotiable. Excellent benefit plans and opportunities for interaction with scientists at nearby industrial laboratories. Send application letter, resume, certified undergraduate and graduate transcripts, and three letters of recommendation by 1 June 1991 to:

Dr. Barbara J. Oder
Vice President for Academic Affairs
West Virginia State College
P.O. Box 1000
Institute, WV 26112-1000
An Equal Opportunity/Affirmative Action Employer.

DIRECTOR
UNDERGRADUATE LABORATORIES
MOLECULAR BIOLOGY AND ECOLOGY
AND EVOLUTIONARY BIOLOGY

Professional technical staff member responsible for directing all aspects of introductory laboratory courses for molecular biology majors, for ecology and evolutionary biology majors, and a course for nonmajors. Responsibilities will include reorganization of all laboratory experiments, writing of protocols, production of laboratory manuals, supervision of staff of preparators, and training of graduate teaching assistants. Applicant must be able to work closely with faculty in redesigning laboratory exercises, in introducing new molecular and ecological concepts and techniques to the courses. Director will also be responsible for participating in departmental programs for secondary school teachers, summer research programs, and special training presentations and demonstrations during the year with external collaborators. An important component of the position will be working with architects and contractors on construction of new laboratory space. A Ph.D. in molecular biology is required, along with an understanding and familiarity with the field of ecology and evolutionary biology. Experimental laboratory science at the university level is a must. Salary and rank for this 12-month position commensurate with experience. Applicants should send curriculum vitae and the names of at least three references to:

Alice Lustig
Department of Molecular Biology
Purdue University
Princeton, NJ 08544

Princeton University is an Equal Opportunity/Affirmative Action Employer.

INDEPENDENT SCIENTIST

The Neurobiology Laboratory, part of the Neuroscience Branch of the National Institute on Drug Abuse, Addiction Research Center, wishes to enhance its efforts in elucidating molecular and cellular mechanisms relevant to addiction by recruiting an independent investigator with interests and expertise complementing existing programs in molecular neurobiology, molecular neuropharmacology, and brain imaging. Individuals with expertise in: (i) protein biochemistry (e.g., defining activity-dependent post-translational modifications of neuronal proteins or structures of drug receptors, and interest in establishing enhanced protein/peptide biochemical facilities); or (ii) cell biology (e.g., techniques for neurotransmitter receptors and related second messengers) are especially encouraged to apply. The successful candidate will lead a unit or laboratory, depending on experience, with staff and resources available to support a laboratory in the field. Federal salary and benefits are competitive. M.D. and/or Ph.D. (biology, pharmacology) and U.S. citizenship required. Applications are encouraged to apply to:

Brian Butters, Neuroscience Search Committee
Addiction Research Center
National Institute on Drug Abuse
Baltimore, MD 21224

The ARC is an Equal Opportunity/Affirmative Action Employer, M/F/H/V, and is smoke- and drug-free.

POSITIONS OPEN

DIRECTOR OF THE NATIONAL TECHNOLOGY TRANSFER CENTER

A director is sought for the National Technology Transfer Center (NTTC). This Center, mandated by Congress, is on the campus of Wheeling Jesuit College located in Wheeling, West Virginia. The NTTC has as its mission the transfer of federally sponsored research to U.S. business and industry. The NTTC is presently in the initial start-up phase. The director will oversee tasks such as the following: the development and application of a sophisticated technology transfer information system; organizing a technology access capability to respond to business, industry, and government ranging from the entrepreneur to major U.S. corporations; create a nationwide infrastructure of cooperating organizations including federal, state, and local government and other technology transfer organizations; develop the Center into a self-supporting, growing entity by providing services to industry and products to its clients; and develop and market a nationwide technology transfer training center. The director should possess, at a minimum, the following qualifications:

- An advanced degree with at least 10 years of experience directing a technology transfer organization or activity.
- An understanding of technology transfer in the United States as it relates to federal agencies, federal laboratories, state governments, U.S. industry, and academia.
- Proven leadership abilities.
- The ability to design and establish the establishment of new and innovative technology transfer programs.
- Demonstrated record in generating funding necessary to support organizational growth.

The position of director for the NTTC reports to the president of Wheeling Jesuit College. This college is located in the northern panhandle of West Virginia. The city of Wheeling offers a high quality of life in a low cost of living area. Wheeling is 1 hour from the city of Pittsburgh and from the Pittsburgh International Airport, all major airports within 30 minutes.

Applicants should send cover letter, curriculum vitae, and references by 24 May 1991 to: President, Wheeling Jesuit College, 316 Washington Avenue, Wheeling, WV 26003.

Applications from members of minority groups are encouraged.

CHAIRPERSON, DEPARTMENT OF BIOCHEMISTRY
THE UNIVERSITY OF MICHIGAN

CHAIRPERSON, DEPARTMENT OF BIOCHEMISTRY

The University of Nebraska College of Medicine is conducting an active search for a Chairperson of Biochemistry. The successful candidate will be expected to have an established career in biochemistry, molecular biology, and related fields, as well as a commitment to excellence in teaching. Interested applicants should submit a curriculum vitae, a letter of interest addressing research and administrative goals, and the names of three references to: Michael F. Sorrell, M.D., Chairperson, Biochemistry Chair Search Committee, c/o Dr. Terry Fenger, Chair, 1542 Spring Valley Drive, Huntington, WV 25755-9330. Deadline for application is 1 June 1991.

Equal Opportunity/Affirmative Action Employer.

CHAIR, DIVISION OF MEDICINAL CHEMISTRY AND PHARMACEUTICS
UNIVERSITY OF KENTUCKY COLLEGE OF PHARMACY

The Division of Medicinal Chemistry and Pharmaceutics at the University of Kentucky invites applications and nominations for the position of division chairperson. The position requires a doctoral degree in chemical engineering, applied pharmacy, or a related discipline, and a record of substantial accomplishment in research and education. The successful candidate will provide leadership in clinical trials, extramural, and program development. Screening of applications will begin 21 June 1991. Send letters of nomination and names of three reference to: Patrick P. DeLuca, University of Kentucky, College of Pharmacy, Lexington, KY 40536-0082. Applications from qualified women and minorities are encouraged.

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

THE UNIVERSITY OF MICHIGAN

CHAIRPERSON, MECHANICAL ENGINEERING AND APPLIED MECHANICS

Applications are invited for the Department of Mechanical Engineering and Applied Mechanics at The University of Michigan. Applications and nominations are sought for the position of department chairperson. The candidate should have a doctoral degree in mechanical engineering, applied mechanics, or a related discipline, and a record of substantial accomplishment in research and education. The successful candidate will provide leadership in the academic, administrative, and program development; and be responsible for the development of the departmental program. Applications and nominations are invited for the position of chairperson. The successful candidate should have a record of accomplishment in research and education, and a strong commitment to excellence in teaching. The position is available immediately.

Applications should be submitted to: Professor J. M. W. van der Putten, Chair, Mechanical Engineering and Applied Mechanics, The Pennsylvania State University, University Park, PA 16802.

Applications are invited for the position of chairperson. The successful candidate should have a record of accomplishment in research and education, and a strong commitment to excellence in teaching. The position is available immediately.

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Applications should be submitted to: Professor J. M. W. van der Putten, Chair, Mechanical Engineering and Applied Mechanics, The Pennsylvania State University, University Park, PA 16802.
Department Head
University of Idaho

The faculty of the Department of Bacteriology and Biochemistry at the University of Idaho is reopening its search for an outstanding scientist to serve as Department Head. The department is comprised of 13 research and teaching faculty with research interests in microbiology, biochemistry, and molecular biology. The department offers an undergraduate degree in bacteriology and M.S. and Ph.D. degrees in Bacteriology or Biochemistry. The scientist selected for this position will have an exceptional research record in one of these subject areas, a continuous history of grantsmanship and publication, and the academic rank of professor, and teaching experience. The successful applicant will be expected to continue a dynamic research program, supervise the day-to-day administration of the department, and provide leadership for the faculty members in this active research-oriented department. Applications should include a detailed discussion of current research interests, curriculum vitae, a summary statement on administrative philosophy and experience, and at least three reference letters. Nominations and applications should be sent to:

Dr. David J. Oliver
Department of Bacteriology and Biochemistry
Life Science Building
University of Idaho
Moscow, Idaho 83843
(208) 885-7164

The search will be closed when a sufficient number of qualified applicants have been identified but not before July 1, 1991. The University of Idaho is an equal opportunity/affirmative action employer and educational institution.

SECTION HEAD
Drug Metabolism and Pharmacokinetics

Fisons Pharmaceuticals, an international pharmaceutical research and development organization, is looking for an experienced person to lead a group of scientists dealing with the disposition of candidate compounds in animals and man, at its research facility in Rochester, NY.

The group is involved with early research compounds as well as development candidates, and with mechanistic aspects of produgs and other drug delivery problems including those of peptides, especially in relation to the CNS.

The ideal candidate will have a PhD in Drug Metabolism or a related discipline, a sound knowledge of the role of drug metabolism studies in drug development, and several years’ experience in team leadership in this general area. Knowledge and experience of use of isotopes, in vitro systems, relevant analytical methodology and pharmacokinetic modelling are essential. Strong organizational, interpersonal and communications skills together with an innovative scientific approach and the ability to work collaboratively with scientists in other disciplines are also required.

For confidential consideration, please send resume and salary requirements to: Attn: Employment Office, Ref. Ad # RSC764, Fisons Pharmaceuticals, P.O. Box 1710, Rochester, NY 14603.

Museum Director
Raymond M. Alf Museum
Claremont, California

The Raymond M. Alf Museum, a paleontological museum located on the campus of The Webb Schools, seeks an enthusiastic and qualified individual as its Director. The teaching museum focuses on the education and enrichment of the students of The Webb Schools and the community at-large.

The director is hired by the museum board in collaboration with the head of The Webb Schools. The director reports to the board on museum matters and to the head on all matters related to The Schools. The museum director is an ex-officio member of the museum’s board of trustees.

The director’s duties include responsibility for all museum operations, undertakings, staffing, and supervision. The director works with the board and head to develop the goals and objectives which fulfill the missions of the museum and The Schools.

Candidates should have strong qualifications in vertebrate paleontology; significant field work and teaching experience; demonstrated leadership and inspiration of young people; administrative skills; experience in fundraising; and knowledge of and commitment to museum development and stewardship. Interest in and experience with the education of college-preparatory adolescents is preferred.

The Raymond M. Alf Museum does not discriminate on the basis of race, color, national and ethnic origin in the administration of any of their programs or policies.

Interested candidates should send a resume and statement of purpose and philosophy to:

Dr. Michael Woodburne, Department of Earth Sciences
University of California, Riverside, California 92521-0423
positions open

director of the wheeling jesuit college of the future

A director is sought for Wheeling Jesuit College in Wheeling, West Virginia. This high-tech educational facility is developing on the campus of Wheeling Jesuit College and will be a new model of classroom and residence hall. A NASA Teacher Resource Center, an Education and Software Development Center, will include downlink components, and interactive video conferencing facilities.

The program will be housed in a newly constructed 40,000 square foot building in the fall of 1991. The purpose of the facility and the programs are to serve the nation and the world. The director of the College of the Future will be responsible for developing the program and assembling a faculty.

positions open

enowned chair cardiovascular surgery research

The Department of Surgery at the University of South Florida in conjunction with the Suncoast Chapter of the American Heart Association is seeking an outstanding individual to fill a faculty position in Cardiovascular Surgery Research. The position is expected to be an M.D. or Ph.D. and be committed to spending a minimum of 70 percent of time in cardiovascular research activities. Strong publication experience and demonstrated ability to secure external funding for research are essential. Dedication to teaching with high motivation and a strong interest in attracting and retaining junior faculty members is also desired.

Candidates should submit curriculum vitae to: Larry Carey, M.D., Ph.D., Chairman, Department of Cardiovascular Surgery, University of South Florida, Department of Surgery, 12901 Bruce B. Downs Boulevard, Tampa, FL 33613.

The University of South Florida is an Affirmative Action/Equal Opportunity Institution.

positions open

department head fishery science/vertebrate biology

colorado state university

Desired qualifications: Demonstrated leadership in the broad area of biology or management of terrestrial and/or aquatic resources; an earned doctorate; quality teaching and service; publication record; evidence of potential to attract extramural funds; government and private sector experience; and a commitment to the concept of integrative science, including the capacity to maintain relationships with educational institutions, regional and local governments, and to relate to the educational and public environment. The successful candidate will ensure the improvement of the math and science education in our country's structure. The director should possess, at a minimum, the following qualifications:

- A Ph.D. degree with an emphasis in math, science, aerospace, or other technical fields.
- A record in the establishment of new and innovative educational programs using advanced educational technology.
- A background and the ability to administer federal grants and to seek private and federal sources for the expansion of programs.
- Communication and interpersonal skills that will present work of this prototype facility consistent with NASA and Jesuit values.

Applications from members of minority groups and women are encouraged.

academic pathologists

The Laboratory Service of the Memphis Veterans Administration Medical Center, an 800-bed tertiary care facility affiliated with the University of Tennessee, School of Medicine, recruiting staff members interested in surgical pathologists and pathologists specializing in laboratory medicine. Preference will be given to candidates who have excellent diagnostic skills, active research interest in areas such as extracellular matrix, matrix-interactions, carcinogens or tumor invasion, a successful history of extramural funding and a commitment to resident education. These positions will have dual appointment at the VA Medical Center and the University of Tennessee, School of Medicine.

The rank and salary will be commensurate with experience. Prior to 1 July 1991, candidates should send curriculum vitae and three letters of recommendation to: Antonio Martinez-Hernandez, M.D., Chief of Laboratory Service, VA Medical Center, 1030 Jefferson Avenue, Memphis, TN 38104 or Robert E. Scott, M.D., Chairman of Pathology, The University of Tennessee, 800 Madison Avenue, 576 Baptist Main, Memphis, TN 38163. The VA Medical Center and The University of Tennessee are Equal Employment Opportunity/Affirmative Action/Title IV/Section 504 Employers.

Maine Maritime Academy (MMA), Department of Ocean Studies, seeks to fill two FACULTY POSITIONS, fall 1991. Assistant professor level—Ph.D. in oceanography or related field. Experience in biology, chemistry, physics, and computer science. Both positions teach undergraduate marine science courses in biology and mathematics. Return to: Director, Ocean Science Resources, MMA, One College of the Sea—Beach St—C, Castine, ME 04420.

positions open

DNA hybridization FACULTY POSITION available. Department of Pediatrics with major assignment in the Meyer Rehabilitation Institute, a multidisciplinary unit of the University of Nebraska Medical Center. M.D. preferred, in training or with experience in DNA hybridization and genetics. An M.D. with long experience in DNA hybridization alone would be considered. Rank and salary commensurate with education and experience. Write: Bruce A. Buehler, M.D., Director of Meyer Rehabilitation Institute, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198. An Equal Opportunity/Affirmative Action Employer.

positions open

the hebrew university hadassah medical school

jerusalem faculty positions

The Faculty of Medicine invites applications for tenured-track faculty positions and for Allon Fellowship candidates leading to tenured-track positions in basic medical sciences. Preference will be given to candidates that utilize modern molecular approaches in the following areas: medical microbiology, human genetics, parasitology, biochemistry, cell biology, physiological chemistry, physiology and pharmacological sciences. Ph.D. or M.D. degree is required in molecular biology or related field. Candidates must have demonstrated ability to secure external funding for research. Excellence in research and teaching will be of prime importance in the decisions of the search committees. Demonstrated ability and experience in teaching at the undergraduate and graduate level is required. Preference will be given to candidates with a Ph.D. and a demonstrated ability to teach. Curriculum vitae, list of publications, three to five selected reprints, research plans and three letters of recommendation should be submitted to: Dr. Daniel Sercarz, School of Medicine, The Hebrew University, 91120 Jerusalem, Israel, and Dr. D. Sercarz, School of Veterinary Medicine, The Hebrew University, 93100 S. Jerusalem. The above positions are open until filled.

western state college of colorado plant ecologist

A temporary position available August 1991, with tenure-track possibility in late December, well-qualified, Ph.D. in plant ecology preferred, but well-qualified master's degree considered. Rank and salary commensurate with education and experience. Responsibilities include include plant and general ecology, plant physiology, other botanical courses, and introductory biology. Strong biology program and great location. Send letter of application, curriculum vitae, and names and addresses of three references to: Botanical Search Committee, Department of the Sciences, Western State College, Gunnison, CO 81231. Deadline for receipt of materials is August 15, 1991. An Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

histology lecturers

A well-watched, successful, international medical school seeks qualified teaching staff. Both senior and junior posts are available. Recently retired lecturers will be considered. Interested candidates are welcome to contact the area. Send curriculum vitae (preferably by FAX) to: Faculty Recruitment Office, St. George's University School of Medicine, P.O. Box 1026, Grenada, West Indies FAX: 809-444-4823

labatory instructor, physiology

The University of North Dakota School of Medicine, Department of Physiology, is seeking to fill a non tenure-track faculty position with a starting date of 15 August 1991. A master of science degree in physiology is required and a Ph.D. is preferred. The position is responsible for teaching undergraduate laboratory procedures similar to those listed above and to work with the laboratory director on specific research projects in the field of DNA replication and genetics, as required, 1 year of work experience in this area. M.S. preferred.

We offer a competitive benefits and compensation package. Send résumé to: Julie Kellenberg, M.D., Ph.D., Director, Molecular Diagnostics Laboratories Cedars-Sinai Medical Center 8631 North De bre H Bart Building, Room 354 Los Angeles, CA 90048

The University of North Dakota School of Medicine, Department of Physiology, School of Medicine, University of North Dakota, Grand Forks, ND 58202.
The Preclinical Dermatology Research Group has an immediate opening for a

BIOLOGIST
or
PHARMACOLOGIST

interested in planning, conducting and evaluating in vivo and in vitro studies with investigational dermatologic agents.

The successful candidate will have

- a doctorate in biology or pharmacology
- experience in pharmacology
- a command of spoken and written English
- some familiarity with, and willingness to learn German
- the ability to work in a team.

Experience in experimental dermatology would be useful.

Candidates interested in this position and possessing the necessary qualifications are asked to send their applications with references and a handwritten curriculum vitae to our Personnel Department, F. Bringolf, quoting reference. Science 30/91/ Bri. F. Hoffmann-La Roche Ltd, CH-4002 Basel

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

CHIEF
Laboratory of Molecular Biology

The National Institute of Neurological Disorders and Stroke (NINDS) invites nominations and applications for the position of Chief, Laboratory of Molecular Biology (LMB), Division of Intramural Research (DIR), Basic Neurosciences Program (BNP). This is a Civil Service Position in the Senior Executive Service with a salary range of $87,000 - $100,500 per annum. Physicians are also eligible for payment of Physicians Comparability Allowance up to $20,000 per year. A one-year probationary period must be served by the individual selected if not currently in the Senior Executive Service.

The Chief, Laboratory of Molecular Biology provides technical and administrative direction and leadership to the Institute's research program in molecular neurosciences and serves as the focal point within the Federal Sector, scientific community and the public for these activities.

For more information on the position, contact Dr. Harold Gainer at (301) 496-5468. For information regarding qualifications requirements, contact Ms. Claudia Palumbo at (301) 496-6334. The following forms are required: Application for Federal Employment (SF-171) accompanied by a current curriculum vitae and bibliography. These must be submitted to:

Ms. Claudia Palumbo
National Institutes of Health
NINDS Personnel Office
Building 31, Room 8A23
9000 Rockville Pike
Bethesda, Maryland 20892

Applications must be postmarked no later than September 9, 1991

All qualified candidates will receive consideration without regard to race, religion, color, sex, age, national origin, lawful political affiliation, marital status, union membership, or any nondisqualifying physical or mental handicap.

NIH is an Equal Opportunity Employer
University of Basel (Switzerland)
Professor of Vegetation Science/Conservation Biology
(ausserordentlicher Professor)

This position is offered as part of a new program in applied aspects of plant ecology, vegetation science, and environmental biology. Candidates should have a strong background in one or more of these areas; in addition experience in climate and soil studies, computer applications in vegetation analysis, rangeland or forest ecology or zoology would be welcome. The candidate will be expected to initiate field research and organize lectures, excursions and field courses. Adequate knowledge of the Central European flora is therefore imperative. Cooperation with a second, future faculty appointee (who will have a stronger orientation toward geography) is expected. Applications should include a brief statement about prior or envisaged future research activities, as well as five important publications, and should be submitted to the

Dekanat der Philosophisch-Naturwissenschaftlichen Fakultät
Klingelbergstrasse 23
CH-4056 Basel.

Hoffmann-La Roche
A world leader in pharmaceutical and diagnostic products, we recognize that our success is dependent upon our ongoing contributions to world health. This commitment has created an opportunity for a highly motivated scientist to become Director of Asthma/Allergy Research at our Nutley, New Jersey Headquarters.

In this highly visible position, you will oversee both the scientific and the managerial functions of the Bronchopulmonary/Allergy Department. Specifically, you will direct a multidisciplinary team of approximately 20 scientists conducting exploratory research to identify new antiallergic and antiallergy drugs.

Qualifications include a PhD in Biochemistry, Pharmacology, Immunology or Molecular Pharmacology, along with 10+ years of experience gained after your degree. In addition, a background in asthma/allergy research demonstrating successful management of research groups and projects is required; a background in the pharmaceutical industry would be a plus.

We offer an attractive compensation package including bonus, generous benefits and relocation policies, and the opportunity to have significant scientific impact. For confidential consideration, please send your resume, indicating present salary (those without this information will not be acknowledged), to: Mrs. Eleanor M. Malone, Staffing and Employee Services, Dept. EM121AV, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

DIRECTOR OF
BRONCHOPULMONARY/
ALLERGY RESEARCH

Hoffmann-La Roche
Working Today For a Healthier Tomorrow
Senior Biomedical Information Scientist

Due to internal promotion, the Medical Research Division of American Cyanamid Company has a challenging career opportunity for an individual with a Ph.D. in molecular biology or closely related discipline to provide technical information support to our antimicrobial, molecular biology, virology and biotechnology-oriented research, drug development and marketing programs.

Responsibilities include conducting literature, sequence, and patent searches using leading-edge information retrieval technology; active participation in our progressive end-user searching program; monitoring current published literature for important research and commercial advances and effectively communicating these findings to a dynamic population of research scientists, managers, and marketing personnel dedicated to the prevention and treatment of infectious diseases.

Well-developed interpersonal and communications skills are a prerequisite for this position. Individuals with experience using on-line information systems, molecular sequence databases and knowledge of computer technology will receive preferential consideration.

The position is located on the expanding Lederle Laboratories campus in Rockland County, New York, 25 miles north of New York City and yet close to extensive outdoor recreational and wilderness areas. We offer competitive salaries and excellent benefits. Please send your resume and the names of three references to: Dept. L.J., American Cyanamid, Medical Research Division, Pearl River, New York 10965. We are an equal opportunity employer m/f/h/v.

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We'll Help You Build A New Lab

Let the free Science product information service put you in touch with the vendors whose products you will need.

Simply write us a letter stating the specifics about your proposed lab and the instruments and supplies you need. We will do the rest. Write to:

SCIENCE Magazine
New Lab Service Department
1515 Broadway
New York, NY 10036

1992 COMPETITION

MERCK-AFCR FOUNDATION
MD-PhD POSTDOCTORAL FELLOWSHIPS

FIVE FELLOWSHIPS AVAILABLE
Merck Sharp & Dohme Research Laboratories, through its Academic Development Program, and the American Federation for Clinical Research Foundation announce the 1992 competition for the Merck-AFCR Foundation MD-PhD Postdoctoral Fellowships to support the further training of MD-PhD scientists.

FELLOWSHIP TERMS
* Candidates must have completed an MD-PhD educational program and be accepted into a postdoctoral training program.
* Candidates must provide evidence of 2 years of clinical training or have completed residency training at the time the award begins (July 1, 1992).
* Fellowships are intended for independent research in the biomedical sciences, including the fields of: biological chemistry; cellular, molecular and structural biology; epidemiology; genetics; medical informatics; microbiology; immunology; pharmacology; physiology; pathology.
* Candidates must be citizens of the U.S. or Canada or permanent residents of the United States.
* Fellows must devote 80% of his/her time to research. Each Fellow will spend up to three days in the Merck Research Laboratories during his/her tenure as award recipient and present research results. Travel support will be provided for the Fellow's mentor. The Fellow must maintain membership in the American Federation for Clinical Research and must submit an abstract to and attend a Regional or National AFCR meeting each year.
* First-year support consists of a $40,000 stipend and a $3,000 allowance for travel, journal subscriptions and society memberships. In addition, the recipient's university will receive a $7,000 grant for supplies related to the funded research. Indirect costs will not be allowed.
* Fellowships may be renewable on an annual basis for an additional two years, pending approval of annual progress reports.

FELLOWSHIP APPLICATION TERMS
All applications must be submitted on the official Merck-AFCR Foundation MD-PhD Postdoctoral Fellowship application form. Each application must include:
* A curriculum vitae
* One page abstract of the proposed research
* A proposal of 8 to 10 pages, including background and references
* A statement of the applicant's career goals
* Two letters of recommendation
* Two reprints of published papers representative of the applicant's research
* A letter from the applicant's mentor describing how the proposed research will contribute to the applicant's development as a creative scientist.

IMPORTANT DATES

FOR APPLICATIONS AND INQUIRIES:
Merck-AFCR Foundation Fellowship Program
AFCR Headquarters
6900 Grove Road
Thornwood, NJ 08086
Phone: 609-853-9129, Ext. 293
Fax: 609-853-5991
Schering Plough is a $3+ billion research-driven leader in the health care industry. We currently have a challenging position available in our Animal Health Formulation Research Group located in Kenilworth, New Jersey.

The selected candidate will research novel drug delivery systems for application to current and future drug products. The successful applicant will apply principles and techniques in physical pharmacy and analytical chemistry as applied to drug formulation research.

We offer a competitive salary and benefits package. This is a one year assignment with an opportunity to renew. Interested candidates should forward their resumes to: PV, Schering Plough Corporation, 2000 Galloping Hill Road, K6, E-17, Kenilworth, NJ 07033. We are an equal opportunity employer.

What you have in mind, we put into action.

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**Postdoctoral Research Fellowship**

**Protein Phosphorylation and Signal Transduction in Tumor Cells**

The purpose of this position will be to investigate the role of growth factors, their receptors and tyrosine phosphorylation in cellular proliferation, cell cycle progression and tumorigenesis as well as the consequences of intervening at strategic sites along these pathways. There will also be an opportunity to assess the involvement of second messengers in tumor stress response and programmed cell death.

The candidate will join a highly successful preclinical cancer research group which is part of a multidisciplinary effort to study the control and regulation of cellular proliferation. Candidates should be recent Ph.D. graduates in biochemistry, pharmacology or cell biology. Experience in the areas of signal transduction, tumor biology or oncogene expression would be helpful.

Appointment is for one year, renewable for a second year. Compensation includes a competitive salary with relocation expenses and an attractive benefits package. Our modern research facilities are located adjacent to the University of Michigan in an outstanding living and working environment. Send letter of application with curriculum vitae and names of three references to BOX JDM-0019, Human Resources, PARKE-DAVIS Pharmaceutical Research Division, Warner-Lambert Company, 28 Plymouth Road, Ann Arbor, MI 48105. “Smoke-Free Work Environment”

“Equal Opportunity in Action”

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**Positions Open**

**Tenure-Track Faculty Position in Epidemiology**

The Epidemiology Program of the Department of Biomedical and Environmental Health Sciences in the University of California at Berkeley School of Public Health invites applications for a position as ASSOCIATE OR FULL PROFESSOR of epidemiology. The successful candidate is expected to develop and maintain an active research program and to participate in the teaching program, including the supervision of doctoral thesis research and the teaching of the introductory course in epidemiologic methods required of all master’s level students in epidemiology. The area of specialization within epidemiology of the successful candidate is less important than the candidate’s proven ability to sustain an independent research program and his or her ability to teach a course in epidemiologic methods.

Candidates should have a doctoral, medical, or equivalent degree and training or extensive research experience in epidemiology. Applicants should send their curriculum vitae and the names and addresses of three references by 15 July to:

George F. Sensabaugh, Chair Department of Biomedical and Environmental Health Sciences School of Public Health University of California 140 Warren Hall Berkeley, CA 94720 The University of California is an Equal Opportunity/ Affirmative Action Employer.

**A Hybridoma Antibody/Cell Culture Specialist**

at the Ph.D. level to head new Monoclonal Antibody/Cell Culture Facility. The individual will interact with faculty in developing strategies for generating monoclonal antibodies, performing immunizations, cell fusions, and screening of monoclonals. The facility will also provide large-scale tissue culturing and provision of tissue culture media, serum, and reagents. Send curriculum vitae and names of references to: Dr. Susan K. Pierce, Department of Biochemistry, Molecular Biology and Cell Biology, 2153 Sheridan Road, Hogan 2-100, Evanston, IL 60208-3500. Equal Opportunity/Affirmative Action Employer. Employment eligibility verification required upon hire.

**Postdoctoral Position**

Available immediately to study the effect of steroid hormones and growth factors on gene expression in human uterine tissues. Experience in molecular biology (e.g. library screening, DNA sequencing) is essential. Research laboratories are located at the Tampa General Hospital. Send curriculum vitae and the names of three references by 4 June 1991 to: Dr. William N. Spellacy, Chairman, Department of Obstetrics and Gynecology, University of South Florida, Harbour-side Medical Tower, 4 Columbia Drive, Tampa, FL 33606. FAX: 813-254-0940. An Equal Opportunity/Affirmative Action Employer.

**Postdoctoral Position**

Available immediately to study pathophysiological bases of thiamine deficiency/alcohol-induced encephalopathy. Experience with rat brain stereotaxy, histology, and HPLC are essential; in vivo microdialysis, amino acid and ion measurements, pharmacologic treatments, and image analysis techniques highly desirable. Candidates should send curriculum vitae and names of three references to: Dr. P. J. Langis, Department of Psychology, San Diego State University, San Diego, CA 92182-0350. Equal Employment Opportunity/Affirmative Action/Title IX Employer.

**Postdoctoral Position**

Dana-Farber Cancer Institute

Available immediately in a laboratory actively engaged in the development of new drugs and therapeutic strategies for the treatment of solid tumors. Applicants should be well versed in aspects of Northern, Southern and Western blotting techniques and have a familiarity with DNA sequencing and footprinting and mammalian cell culture. This position requires self-motivation and ability to work independently. Joint appointment will be held in the appropriate department of Harvard Medical School. Send curriculum vitae and names, addresses, and telephone numbers of three references to: Dr. Beverly A. Teicher, JR 519, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. Affirmative Action/Equal Opportunity Employer.
POSITIONS OPEN

A 2- to 3-year POSTDOCTORAL POSITION is available to study regulation of ion channel function and excitation-contraction coupling in isolated vascular smooth muscle cells using patch clamp and radiometric fluorophore techniques. All applicants with strong academic backgrounds will be considered. Please submit curriculum vitae, career objectives, and references to: Dr. Robert H. Cox, Beckus Research Institute, The Graduate Hospital, One Graduate Plaza, Philadelphia, PA 19146. The Graduate Hospital is an Affirmative Action/Equal Opportunity Employer.

RESEARCH CENTER FOR MOLECULAR MICROBIOLOGY
SEUL NATIONAL UNIVERSITY
POSTDOCTORAL POSITION

Ten positions available to study the response of microorganisms upon environmental changes. Applicants with backgrounds in such areas as microbial taxonomy, physiology, molecular genetics, ecology, and protein chemistry are wanted. Annual salary is 6,600,000 Won. Please contact and send curriculum vitae, names and addresses of two references to: Dr. Hack Song Chung, Research Center for Molecular Microbiology, Seoul National University, Seoul 151-742, Korea. Telephone: 82-2-880-6710; FAX: 82-2-880-4911.

POSTDOCTORAL POSITION, PHOTOSYNTHESIS

Available June 1991 for studies of the evolving process of photosynthesis using biochemical, spectroscopic, genetic, and molecular biological approaches. The position is for 1 year with the possibility of extension. Salary is highly competitive. Additional sabbatical and graduate student opportunities are available to U.S. citizens under Associated Western Universities competitive programs. Send curriculum vitae, short statement of research interests, and names of three references, with telephone numbers to: Dr. Michael Seibert, Solar Energy Research Institute, 1617 Cole Boulevard, Golden, CO 80401. We are an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION

With 0 to 2 years of postdoctoral experience. Main emphasis of the work will be on characterizing the structure/function relationships involved in protein-lipid interactions using various techniques especially fluorescence spectroscopy. The project involves the isolation, purification, and reconstitution of membrane proteins into lipid bilayers. The focus of attention is on the extrinsic membrane proteins (e.g., protein kinase C), although intrinsic membrane protein studies are also of interest. The position requires a biological background, preferably involving membrane proteins, and is available immediately. Send curriculum vitae and names of references to: Dr. C. D. Studds, 271 JAH, Thomas Jefferson University, Philadelphia, PA 19107-6799. We are committed to a smoke-free environment. Equal Opportunity Employer.

POSTDOCTORAL POSITION

Opening in September for a postdoctoral fellow to study the molecular biology and immunology of parasite infections. Current research projects include the molecular basis for antigenic variation in African trypanosomes, the regulation of genes for a surface protein in Leishmania, a characterization of the immune response to Onchocerca volvulus infections and an examination of Trypanosoma cruzi invasion of host cells. Background in molecular biology or immunology is desirable. Send curriculum vitae and three reference letters to: Dr. John E. Donelson, Department of Biochemistry, University of Iowa College of Medicine, 300 EMRB, Iowa City, IA 52242. Equal Opportunity Employer.

POSTDOCTORAL POSITION, NEUROPHYSIOLOGY

Position available now to do research in mammalian sensorimotor systems neurophysiology. Projects are focused on neural signal processing underlying cerebellar control of eye movements. Techniques used include multiple electrode single cell recording, 3-D eye movement recording, and multidimensional vestibular and visual stimulation. Experience with computers and extracellular recording is desirable. Salary: $24,000 to $26,000. Send curriculum vitae, names of three references, and summary of research interests to: Dr. J. J. Simpson, Department of Physiology and Biophysics, New York University Medical Center, 550 First Avenue, New York, NY 10016.

3 MAY 1991

Postdoctoral Fellowship Position

Immunology/Molecular Biology/Biochemistry

Genentech, Inc., a leader in the biotechnology industry, has an outstanding postdoctoral opportunity within our Inflammation and Connective Tissue Research Laboratory.

This research investigates cellular interactions in chronic inflammation and tissue remodeling. We seek a highly motivated individual to join a group exploring T lymphocyte specificity at sites of chronic immune-mediated inflammation. Studies are directed toward delineating T cell antigen receptor usage, control of lymphokine production and T lymphocyte-fibroblast interactions.

Candidates should have a PhD in Molecular Biology, Immunology or Biochemistry and be well versed in molecular biological techniques.

Our progressive company offers an extensive benefits package which includes fully paid dental/medical/vision coverage for you and your dependents, child care facilities, free health club membership and an employee stock purchase plan. For immediate consideration, please send your CV as well as the names and addresses of three references to Edward P. Amento, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. We promote and actively support affirmative action and equal employment opportunities. Women and minorities are encouraged to apply.

Genentech, Inc.

NIGMS MINORITY PROGRAMS SYMPOSIUM

November 3-6, 1991

Washington, DC Convention Center and Grand Hyatt Hotel

Join the largest annual meeting of minority biomedical researchers! This event brings together science students and faculty from colleges and universities with substantial minority enrollments. It is an ideal setting in which to recruit graduate students and summer interns, and in which to forge collaborations with others interested in encouraging minorities to pursue research careers.

The meeting is sponsored by the National Institute of General Medical Sciences (NIGMS), a component of the National Institutes of Health. The NIGMS minority programs include the Minority Access to Research Careers (MARC) Program and the Minority Biomedical Research Support (MBRS) Program. These programs support research and research training, with the aim of increasing the number of minority biomedical scientists and strengthening science teaching and research capabilities at minority institutions.

To register to attend or exhibit at the meeting, contact:

Mark Brown
TASCON
7101 Wisconsin Avenue, Suite 1125
Bethesda, MD 20814
Phone: (301) 907-3844, Fax: (301) 907-9655
**CELL BIOLOGIST/PARASITOLOGIST**

*Antiparasitic Drug Discovery*

The Department of Biochemical Parasitology in the Merck Sharp & Dohme Research Laboratories has an immediate opening for a Senior Research Biologist interested in exploring new chemotherapeutic approaches for the treatment and prevention of protozoan parasitic diseases.

Primary responsibilities include the development of in vitro and *in vivo* models for parasitic infections for use in the discovery and evaluation of novel antiparasitic agents. This position offers a unique opportunity to interact with a team of scientists in various disciplines focused on developing a better understanding of parasite biochemistry as a means of developing new chemotherapeutic agents.

The position requires supervisory experience and a Ph.D. in Cell Biology with at least 3 years of postdoctoral experience in a relevant field of biology. Superior skills in tissue culture and animal model design are essential. The applicant’s practical skills should be complimented by a high level of initiative and superior communication skills.

Merck Sharp & Dohme Research Laboratories is located in Rahway, New Jersey, approximately 25 miles from New York City. Our facilities are state-of-the-art and our renowned research environment is excellent. For consideration, please send your resume with the names of three references to: Human Resources Manager, Merck & Co., Inc., P.O. Box 2000, WBC-155, Department S-18, Rahway, NJ 07065-0900.

An equal opportunity/affirmative action employer, m/f/h.

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**Repligen Corporation**

Repligen Corporation is a leader in the application of biotechnology to the healthcare market. We are currently developing an AIDS vaccine, AIDS therapeutic and diagnostic products, cancer therapies, and anti-inflammatories. We take pride in the high caliber of our scientific staff and our collaborations with major research institutions and corporate partners in Europe and the United States. The expansion of our effort has created the following opportunity:

**Principal Investigator/Group Leader Immunotherapeutics**

We are seeking an individual for this senior level position on our Immunology staff to be responsible for coordinating and conducting research in the area of immune response. This will involve using cell culture to mimic disease processes, and identifying mechanisms of cell activation and repression through biochemical and molecular test techniques. The successful candidate will possess a PhD with at least 5 years’ experience in biochemical and molecular mechanisms of the immune function. Previous experience in supervising PhD level scientists as well as previous work on leucocyte activation or repression preferred.

Repligen Corporation offers a competitive salary, excellent benefits, relocation, and equity participation. Please submit a cover letter, resume, and references to: Barbara Fleming, Repligen Corporation, One Kendall Square, #122, PO Box 9171, Cambridge, MA 02139. An Equal Opportunity Employer.

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**INDIANA UNIVERSITY**

**PROTEINS AS MACHINES**

*Indiana Molecular Biology Symposium VI*

**October 27–30, 1991**

**Indiana Memorial Union**

**Presented by the**

**Institute for Molecular and Cellular Biology**

Indiana University, Bloomington, Indiana

**Topics:** Cytoplasmic motors; Nuclear motors; Trans-membrane transport; Structural/physical approaches to understanding mechanisms

**Speakers Include:** Howard Berg (Keynote Speaker)

- Richard McIntosh
- William Saxton
- Ronald Vale
- Lawrence Goldstein
- Gerald Smith
- Michael Chamberlin
- Connie Holm
- Bruce Alberts
- Douglass Forbes
- Gunter Blobel
- Peter Walter
- Nikolaus Pfanner
- Thomas Steitz
- John Murray
- Kenneth Holmes
- Toshio Yanagida
- James Spudich
- John Hammer
- Clarence Schutt
- Thomas Pollard

Sponsored in part by the Indiana Corporation for Science and Technology

For information and registration, write to: Rhea Percival, Institute for Molecular and Cellular Biology, Jordan Hall 322A, Indiana University, Bloomington, Indiana 47405.
Molecular Biologist

Sphinx Pharmaceuticals Corporation is a rapidly growing company dedicated to the discovery and development of novel therapeutics for human disease based on interactions with key intracellular enzymes involved in signal transduction pathways.

We are seeking a molecular biologist for our discovery program. The successful candidate will have a Ph.D. in molecular biology, biochemistry, or related scientific field, at least two years of postdoctoral experience, and expertise in the use of recombinant DNA technology including PCR techniques and in vitro mutagenesis.

Sphinx Pharmaceuticals offers excellent compensation and benefits as well as an attractive relocation policy. We are located in the Research Triangle area of North Carolina, which offers excellent living conditions and outstanding schools. For confidential consideration, please forward your curriculum vitae, list of publications and names of three references to: Sphinx Pharmaceuticals Corporation, Position 134, P.O. Box 52330, Durham, North Carolina 27717. We are an Equal Opportunity Employer.

Sphinx Pharmaceuticals Corporation

Molecular Virologist

Gilead Sciences, an emerging biotechnology company in the San Francisco Bay Area, is seeking a molecular virologist to lead a group of scientists working toward the development of novel antiviral compounds.

The candidate should have an M.D. or Ph.D. with a strong background in biochemistry or molecular biology and a broad knowledge of viral biology and pathogenesis. A postdoctoral fellowship plus 3-5 years experience in biotechnology or the pharmaceutical industry is preferred.

Gilead Sciences offers a challenging research environment, competitive salaries and an employee stock option program. Please send a C.V. and three references to: Jennifer Maddock, Gilead Sciences, Inc., 346 Lakeside Drive, Foster City, CA 94404.

GILEAD SCIENCES

BIOMEDICAL SCIENTISTS

MEDICAL DIAGNOSTIC TECHNOLOGY ASSESSMENT

At Eli Lilly and Company we rely on a team of high caliber professionals to help us identify, develop and manufacture superior quality health care, diagnostic and animal health products. Our success in these areas is in part due to the high quality process that we have developed to identify innovative products and technologies that meet important clinical needs. To help us in this effort, our Medical Devices and Diagnostics Division is now seeking an experienced scientist to become part of a team dedicated to technology assessment and acquisition. Bring us your expertise and help support our worldwide reputation for quality health care.

The individual will have the responsibility, as a member of the division's business planning group to identify diagnostic technology opportunities and make recommendations to senior management. In this process he/she will interact on a continuous basis with other scientists, business development managers, and Lilly subsidiaries developing both in vivo and in vitro diagnostic products.

We are seeking a Ph.D or equivalent in the biomedical sciences with 3+ years of experience in clinical laboratory based diagnostic assay product development, production technical support, or manufacturing. An understanding of the diagnostic business with respect to current methodologies, products, and the business process is important.

In addition to unprecedented programs for professional growth, we provide attractive salaries and benefits. For consideration, please send a cover letter with resume and salary requirements to: Director, Personnel, Medical Devices and Diagnostics Division, Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN 46285. Equal Opportunity Employer.
POSITIONS OPEN

POSTDOCTORAL POSITION. For molecular biologists/immunologists. Research focus on molecular genetics of human antibody repertoire, organization and polymorphism of Ig genes, genes encoding autoantibodies. NIH-funded position. Send curriculum vitae and names of three references to: Dr. Eric C. B. Milner, Virginia Mason Research Center, 1000 Seneca Street, Seattle, WA 98101.

POSTDOCTORAL POSITION. To study plant-microbe interactions in the Bredytrichium japonicum–soybean symbiosis. A Ph.D. in molecular biology, genetics, or biochemistry is required. Experience in the analysis and manipulation of nucleic acids is desirable. Send curriculum vitae and the names of three references to: Dr. Mark R. O’Brien, Department of Biochemistry, State University of New York (SUNY), Buffalo, NY 14214, Research Foundation of SUNY is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS, PLANT MOLECULAR VIROLOGY/BIOCHEMISTRY. Two positions are now open for the study of plus sense RNA plant viruses. Position A: This project will involve the isolation and characterization of a viral replicase complex from muskmelon plants infected with different strains of cucumber mosaic virus. The successful applicant will be expected to familiarize with standard cloning and molecular techniques with experience in biochemistry and enzymology being desirable. Requirements: A Ph.D. in biochemistry, molecular biology, or related field. Starting date: 1 September 1991. Position B: Projects include the cloning and characterization of polyamines and their application toward coat protein–mediated cross protection in transgenic plants and basic research concerning tobacco mosaic virus replication and gene expression. Open until a suitable applicant is found. Funding is available for 3 years for each position. To apply, submit curriculum vitae, statement of research interests, and names of three references to: Position (A) Dr. Marilyn Roosinck or (B) Dr. Brandt Cassidy, Samuel Roberts Noble Foundation, Plant Biology Division, P.O. Box 2180, Ardmore, OK 73402. Telephone: 405-233-8810; FAX: 405-221-7622. Equal Employment Opportunity Employer.

ENVIRONMENTAL PATHOLOGY/TOXICOLOGY. NRSA-supported POSTDOCTORAL POSITIONS available in 15 research laboratories. Emphasis on cellular and molecular effects (mutagenesis, neurotoxicity, biotransformation) of toxic chemicals (especially trace metals, aromatic hydrocarbons, ozone respiratory epithelial injury), and behavioral teratology. Inquiries: Dr. N. K. Motter, Program Director, Department of Pathology, SM-30, University of Washington, Seattle, WA 98195. NRSA requires U.S. citizen/permanent resident. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL COLLEAGUE. University of Hawaii, Pacific Medical Research Center. To join on-going study of electrophysiology, morphology, and neurochemistry of cultured peptidergic neurons using patch-clamp, optical, and immuno methods. Whole-cell and single channel patch-clamp experience necessary. Available February 1992 for 2 years. Inquiries to: Ian Cooke, Laboratoire de Neurobiologie, Ecole Normale Superieure, 46 Rue D’Ulm, 75230 Paris Cedex 05, France until 15 July 1991 then Békéczy Laboratory of Neurobiology, University of Hawaii, 1993 East-West Road, Honolulu, HI 96822. Equal Opportunity/Affirmative Action Employer.


University of Berne invites applications for an open full-time Professorship in the Division of Earth System Science of the Physics Institute (Physikalisch Institut). The appointee is expected to be head of the Division and to lead its research program. The position will be available from October 1, 1992.

Applications from established scientists, willing to participate at all levels in the teaching duties of the Physics Institute, should be sent no later than September 30, 1991 to Erziehungsdirektion des Kantons Bern, Amt für Hochschulwesen (1600 51/90), Sulgenekstrasse 70, CH-3005 Berne. In addition to the usual documentation (detailed curriculum vitae, publication record) an outline of the envisaged research program should be submitted.

For enquirers, contact Prof. H. Debrunner, managing director, Physikalisch Institut, Sidlerstrasse 5, CH-3012 Berne, Tel. 01141-31654051.

ENVIRONMENTAL PATHOLOGY/TOXICOLOGY. NRSA-supported POSTDOCTORAL POSITIONS available in 15 research laboratories. Emphasis on cellular and molecular effects (mutagenesis, neurotoxicity, biotransformation) of toxic chemicals (especially trace metals, aromatic hydrocarbons, ozone respiratory epithelial injury), and behavioral teratology. Inquiries: Dr. N. K. Motter, Program Director, Department of Pathology, SM-30, University of Washington, Seattle, WA 98195. NRSA requires U.S. citizen/permanent resident. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP. Post-doctoral position available in the laboratory of Dr. M. McKinney, Ph.D., in the Alzheimer’s Research Group at Mayo Clinic Jacksonville. On-going studies include molecular pharmacological studies of muscarinic receptor function in aging and in Alzheimer’s Disease, studies of the transcriptional regulation of muscarinic receptor subtypes and of genes related to the survival and plasticity of the central cholinergic phenotype. Persons with a strong interest in applying molecular techniques to the development of therapy and/or to understanding the biology of cholinergic neurodegeneration are encouraged to apply.

Equal Opportunity Employer
**POSITIONS OPEN**

**POSTDOCTORAL POSITION.** Available in molecular immunology for study of signal transduction mechanisms, expression of transcription factors, and biosynthesis of complement components and monokines by cytotoxic macrophages and by subsequently damaged tumor targets. Candidates with Ph.D. in immunology, cell biology, or biochemistry, with training and experience in molecular biology/recombinant DNA technology and cell culture are invited to apply. Send curriculum vitae, summary of research experience and interests, and three references to: Richard W. Leu, Ph.D., The Samuel Roberts Noble Foundation, Inc., Biomedical Division, Immunology Section, P.O. Box 2180, Ardmore, OK 73402.

**POSTDOCTORAL FELLOW, MOLECULAR IMMUNOLOGY.** Opening available July 1991 to study T cell receptor interaction with superantigens and repertoire selection. Background in molecular biology, immunology, biochemistry, and experience in recombinant DNA technology and cell culture is required. Send curriculum vitae and three letters of recommendation to: Dr. Nicholas R. J. Gascoigne, Department of Immunology, Research Institute of the City of Hope, 1000 North Torrey Pines Road, La Jolla, CA 92037.

**POSTDOCTORAL FELLOWSHIP.** University of Massachusetts Medical School. Applications are invited for a postdoctoral position as an associate to work in the laboratory of Dr. Roger J. Davis. The successful candidate will join a dynamic group of scientists and participate in an exciting research environment. Our research is focused on the examination of the mechanisms of signal transduction by the EGF receptor. Successful candidates should possess either an M.D. or Ph.D. in the biological sciences. Preference will be given to individuals with experience in molecular biology or protein chemistry. Please forward your curriculum vitae and three letters of recommendation to: Dr. Roger Davis, Program in Molecular Medicine, University of Massachusetts Medical School, 373 Plantation Street, Worcester, MA 01605. An Equal Opportunity Employer.

**CLINICAL AND GERIATRIC PHARMACOLOGY FELLOWSHIPS.** Applications from Board-eligible/Board-certified physicians are solicited for positions starting 1 July 1991 in the Brown University Department of Medicine. Areas of active research emphasis using contemporary techniques in biology include geriatric pharmacodynamics and molecular mechanisms of antihypertensive drug action. In addition to M.D. and M.D./Ph.D. applicants, highly qualified Ph.D. applicants will be considered. Competitive salary in an outstanding environment. Further information contact: Darrell R. Abernethy, M.D., Ph.D., Director, Program in Clinical Pharmacology, Brown University, Department of Medicine, Roger Williams Hospital, 825 Chalkstone Avenue, Providence, RI 02908.

**POSTDOCTORAL FELLOWSHIP.** Available July 1991 to study the molecular and cellular biology of insulin action. Specific projects include structure/function relationship for the insulin receptor, the cellular trafficking of glucose transporters (GLUT 4) enriched vesicles, and the regulation and expression of genes conferring insulin responsiveness in the target cells of muscle and fat. Please send curriculum vitae and the names of three references to: Dr. Paul F. Pilch, Department of Biochemistry, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118.

**POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE POSITION.** Available immediately. Funded project will determine molecular mechanisms underlying signal transduction. Specific studies will characterize novel nuclear binding proteins coupling peptide receptors to effector enzyme activation in various cells. Ph.D. in biochemistry, pharmacology, and cell biology and experience in protein purification, enzymology, receptor biochemistry, and/or antibody production highly desirable. Salary and benefits are competitive and commensurate with training. Send curriculum vitae, names, and addresses of three references to: Scott A. Waldman, M.D., Ph.D., Division of Clinical Pharmacology, Department of Medicine and Pharmacology, Thomas Jefferson University, 1100 Walnut Street, MB 813, Philadelphia, PA 19107-5563. "Affirmative Action/Equal Opportunity Employer.

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**RESEARCH OPPORTUNITIES IN BIOTECHNOLOGY**

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

Lab Coordinator, Vector Construction - M.S. Degree in molecular biology or equivalent with five years direct experience in gene expression. The successful candidate will be responsible for designing and constructing plasmids for proper expression in plants. This will also include modifying genes for insect and disease resistance. This position will involve both direct laboratory research and supervisory responsibilities.

Applications received by May 17, 1991 will be assured of consideration. However, applications will be considered until positions are filled. Pioneer Hi-Bred International is an Equal Opportunity/Affirmative Action Employer. Send resume including the names of three references and the position for which you are applying to:

Pioneer Hi-Bred International, Inc.
Plant Breeding Division
Attn: Lisa Hall
7300 N.W. 62nd Avenue
P.O. Box 38
Johnston, Iowa 50131

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**PEPTIDE CHEMIST**

Position available immediately for qualified peptide chemist to work in the Biological Resources Branch, National Institute of Allergy & Infectious Diseases, National Institutes of Health. Candidate should have expertise in synthesis, in purification and analysis of peptides. Experience in protein chemistry including compositional and sequence analysis would be helpful. Laboratory management experience is desirable. Plenty of resources available. Salary will be commensurate with credentials.

Qualified and interested candidates should send curriculum vitae and names and addresses of three (3) references to:

John E. Coligan, Ph.D., Chief
Biological Resources Branch
NIAID, NIH
Building 4, Room 413
9000 Rockville Pike
Bethesda, MD 20892
(301) 496-3213

NIH is an Equal Opportunity Employer.
POSTDOCTORAL FELLOW. Immediate position available for a PROTEIN BIOCHEMIST. Must have demonstrated experience with protein/peptide purification and use of HPLC techniques. Candidates with additional experience in molecular biology will be given preference. Projects include work on a new second messenger enzyme system [see Cell Regulation 2, 1991 (1991)] and on a putative circadian oscillator. Salary up to $25,000 per year, depending on experience. Send curriculum vitae and names of three references to: Dr. Felix Strumwasser, Molecular Pharmaceutical Laboratory, Woods Hole, MA 02543. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE

Immediate opening for postdoctoral associate to explore the role of altered integrin adhesive protein receptor expression in the invasive and metastatic behavior of tumor cells. Background in cellular and molecular biology preferred. Send curriculum vitae and names of three references to: Dr. Samuel A. Santoro, Department of Pathology, Box 8118, Washington University School of Medicine, St. Louis, MO 63110.

POSTDOCTORAL RESEARCH ASSOCIATE

REGULATION OF PHOSPHOLIPID METABOLISM AND THE CELL CYCLE

A postdoctoral position is available to participate in an ongoing research program related to the control of cell cycle-specific events by growth factors. Current investigations focus on understanding the mechanism of the rate-determining enzymes in membrane phospholipid biosynthesis and turnover during the macrophage cell cycle. The Ph.D. degree is preferred. Interested individuals with experience in joining a multidisciplinary group applying techniques of molecular biology and biochemistry to problems related to the regulation of lipid metabolism should submit their curriculum vitae, recent publications, and names of three references to: Dr. Suzanne Jackowski, Biochemistry Department, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38101. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE IN ELECTROPHYSIOLOGY

Position available July 1991 for a recent Ph.D. to study atrial natriuretic peptide regulation and pathologic IgH inhibition of voltage-gated Ca2+ channels and their role in the control of aldosterone and catecholamine secretion. Experience with the patch clamp technique is preferred. Send résumé and three references to: M. Isselbacher, Ph.D. (Biological Engineering) and Paula Q. Barrett, Ph.D. (Pharmacology), Box 377, University of Virginia Health Sciences Center, Charlottesville, VA 22908.

A RESEARCH SCIENTIST POSITION (assistant professor level) at The Graduate Hospital, an affiliate of the University of Pennsylvania, is available to an individual with skills in modern cellular or molecular biology. All qualified applicants with strong biological backgrounds will be considered with preference given to those who can interact with ongoing programs in the areas of muscle physiology, neurosciences, or lung injury. Salary, benefits, and startup funds are available for projects supported by extramural funding. Applicants should submit their curriculum vitae, research objectives and references to: Robert H. Cox, Ph.D., Director of Research, The Graduate Hospital, One Eakins Plank, Philadelphia, PA 19146. The Graduate Hospital is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSISTANT. Needed to conduct independent research to develop high level expression system of foreign proteins in eukaryotic cells. Objectives include isolation, purification, and characterization of the cystic fibrosis gene product. Research will include manipulation and expression of high level expression vectors for recombi- nant DNA technology, tissue culture of expression cell systems, protein biochemistry and purification, and investigation of possible therapeutic uses of recombinant protein in cystic fibrosis. Will also prepare publications of research findings and write grant applications. Salary: $25,000 per year; 40 hours per week. Requires a Ph.D. or M.D. degree with 1 year of research experience in the area of molecular biology. Send résumé to: Ms. Sandra T. Starnes, Alabama State Employment Service, P.O. Box 12046, Birmingham, AL 35202-2046. Job Order #AL026915.0

SOMATIX THERAPY CORPORATION

Somatix Therapy Corporation is a leading biotechnology company utilizing cell and cellular transplantation technologies to develop cell-based protein delivery systems for human therapeutic use. Positions are available immediately for highly motivated and qualified individuals.

RESEARCH SCIENTISTS. Currently seeking three Ph.D.-level scientists in cell biology, virology, and molecular biology to begin immediately. Minimum of 2 years postdoctoral experience required. The successful candidates will have research experience in gene transfer technologies or primary care science, and experience will be given to individuals with experience in retrovirology, retroviral vectors, homologous recombination or isolation, and characterization of mammalian cells in primary culture. These positions are available for B.S. and/or M.S. level scientists with experience in cell biology, neurobiology, and/or molecular biology. Somatix provides an excellent career opportunity in a rapidly growing company, as well as a competitive compensation and benefits package. If you are a self-motivated, professional interested in being an important and valued member of a multidisciplinary team, then please forward your résumé to: Personnel Department, Somatix Therapy Corporation, 850 Marina Village Parkway, Alameda, CA 94503. Equal Opportunity Employer.

MICROBIOLOGIST/HISTOPATHOLOGIST


RESEARCH ASSOCIATE, POSTDOCTORAL

A position is immediately available to investigate long-term neurobiological consequences of repeated administration of the psychostimulants methamphetamine and cocaine. Require a recent Ph.D. in pharmacology or molecular biology. Research experience in molecular biology is desirable, but not required. Research experience in molecular techniques such as PCR, mRNA, and cDNA purification, expression vector construction, and transfection methodologies as well as history of microscopy is highly desirable. Send curriculum vitae and three references to: Lewis S. Seiden, Ph.D., Department of Pharmacological and Physiological Sciences, The University of Chicago, 947 East 57th Street, IL 60637. An Equal Opportunity/Affirmative Action/Equal Opportunity Employer.

A RESEARCH ASSISTANT II. In Department of Psychiatry at private university in northeastern Ohio. The position involves: (i) designing, performing and interpreting autoradiographic and immunohistochemical radiog- ind binding to monoamine receptors in human and rat brain tissue to support goals of the laboratory in assessing monoamine receptor binding in brain tissue of suicide victims and individuals dying with schizophrenia; (ii) performing radiogram binding in live rats; (iii) developing sheet film and managing darkroom; (iv) abstracting demographic and medical information from confidential medical examiner's records; (v) gathering quantitative autoradiographic receptor binding data with a computer-based image processing system; and (vi) assisting principal investigator with supervising and training undergraduate students and technicians. The Research Assistant II position requires an M.A. in medical studies or medical experience required. In lieu of M.S., a B.S. in medical studies or medical sciences with 2 years of experience is required in: (i) performing and evaluating binding experiments in brain homogenates or sections; (ii) recording and calculating data generated by radioligand binding experiments; (iii) preparing and interpreting data from autoradiograms; (iv) injecting and tail vein injections of drugs in rats; (v) high-pressure liquid chromatography of monoamines; and (vi) cutting brain sections. Salary: $19,000 to $22,000 per year, depending on years of experience. Send résumé and salary history to: Reference H.S. 250, Ohio State University, Columbus, OH 43210. An Equal Opportunity/Affirmative Action/Equal Opportunity/Equal Opportunity Employer.

REGULATING RISK: THE SCIENCE AND POLITICS OF RISK

This 3-day conference exploring major issues in health, safety, and environmental protection from business, government, academic, and scientific communities will provide an in-depth look at the many complex, interrelated issues associated with risk in society. The conference is sponsored by the National Safety Council in cooperation with the ILSI Risk Science Institute. For information, call: 312-527-4800, extension 8132.

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Key Management Roles Within A Major New Research Centre

International Research in Madrid, Spain

SmithKline Beecham is a major force within the international pharmaceutical industry and enjoys a substantial track record of discovering and developing new medicines. Our vast commitment to research and development is seen as a high priority within the company and is conducted at several research centres around the world.

Currently, we are creating a new research centre at the Technology Park at Tres Cantos in Madrid, Spain. This centre, when fully operational, will make a major contribution to our international research programme. To help achieve this, we need the following high-calibre individuals.

**Associate Director, Biotechnology**

A significant proportion of the research to be undertaken at the centre will involve a fundamental programme on gene expression in micro-organisms, in particular, Streptomyces. As such, we are looking for a scientist (4 years plus post PhD) with extensive experience in biotechnology to manage a section working on microbial genetics and molecular biology. Reporting to the overall director of the research centre, you will also liaise with the company’s Biopharmaceuticals R&D group in both the UK and USA.

**Research Managers**

A major area of research to be undertaken will be natural product screening to identify selected agents with antimicrobial and/or pharmacological activity. Both antimicrobial assays and mechanism-based screens will be used. We are now looking for three experienced scientists (3 years plus post PhD) to report directly to the overall research centre director and be responsible for managing sections involved in the following activities: microbiology, molecular-targetted screening, and natural product chemistry.

For all the above positions, not only will you need to have excellent scientific ability, but you must also have strong organisational and managerial skills and, moreover, a good command of Spanish and English.

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To apply, please send full career details, indicating which position you are interested in, to Senor Luis Cester, Personnel Director, SmithKline Beecham Pharmaceuticals, Costa Brava 14, 28034 Madrid, Espana.
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