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AIDS: Papers from Science, 1982–1985
Edited by Ruth Kulstad

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Edited by Joseph J. Molnar and Henry Kinnucan, Auburn University

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Develop new methods for calculating the electronic energies of molecular systems including the effect of electron correlation. Apply existing and new techniques to outstanding problems in the theory of chemical reactions. Explore parallel implementations of existing codes and develop new ones for parallel computer systems. Manage the Group's computer system.

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5 MAY 1989

PERSONNEL PLACEMENT 599
ASSISTANT PROFESSOR: The Department of Microbiology, Immunology and Parasitology at Louisiana State University Medical Center invites applications for a tenure-track position at the assistant professor level. Applicants must have a Ph.D. degree and three or more years of postdoctoral research experience with an interest in the molecular biology of microbial pathogenesis. Specific experience using biochemical techniques to study molecular mechanisms of disease is preferred. The individual hired will be involved in teaching medical and graduate students. Applicants must send curriculum vitae, statement of research interests, and names of three references to: Dr. (Ms.) Talcots, Chairs Committee, LSU Medical Center, 1901 Perdido Street, New Orleans, LA 70112. An Equal Opportunity/Affirmative Action Employer.

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The Otolaryngological Research Group is seeking a biochemist with a background in carbohydrate/protein biochemistry with an emphasis on receptors, or cell adherence regulatory agents, or experience in immunology and/or pathology, to develop a biochemical/molecular biological program in the Department of Otolaryngology. Additional qualifications include potential for establishing a strong research program in otolaryngology and the presence and commitment of research students. The position is open to individuals with PhD degree or equivalent level of experience. Applicants should send a curriculum vitae, statement of research interests, and names of three references to: Ms. Teresa Martin, The Ohio State University, Otolaryngological Research Laboratories, 456 West 10th Avenue, Room 4331, Columbus, OH 43210.

ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY—Candidates are sought for a tenure-track teaching position with research interests in neuroscience related to molecular mechanisms of drug action. An individual with a PhD degree in neurochemistry or related area, a strong research and teaching experience, and three to five references to: Harbana Lal, Ph.D., Chairman, Department of Pharmacology, Texas College of Osteopathic Medicine, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107. Equal Opportunity/Affirmative Action Employer.

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UCLA School of Medicine

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ISIS PHARMACEUTICALS

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For further information about this position please write directly to:
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We offer an excellent compensation and benefits package. For confidential review, interested candidates should forward a C.V. to: Melanie Graper, Employment Manager, SK&F Laboratories, P.O. Box 1539, King of Prussia, PA 19406-0939. Equal Opportunity Employer M/F/H/V.
POSITIONS OPEN

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U.S. DEPARTMENT OF AGRICULTURE (USDA)

BIOMEDICIST/MICROBIOLOGIST
NORTHERN REGIONAL RESEARCH CENTER, PEORIA, ILLINOIS

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CHEMIST
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APPLIED PHYSICIST

POSITIONS OPEN

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Applications are invited to: Chair, Search Committee for Microbiology and Immunology, Wright State University, Dayton, OH 45435. Applications received before 1 August 1989 will be assured of full consideration in the screening process, but applications will be accepted until the position is filled.

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DEPUTY DIRECTOR
The Office for Interdisciplinary Earth Studies works to facilitate research in the United States and international programs in Global Change. The Deputy Director will assist the Director in formulating activities of the office and oversee all management and operation. We anticipate a starting date of 1 June 1989 or by arrangement.

The successful candidate will have administrative experience and hold an M.S. or equivalent in an area of science relevant to problems of global environmental change. For a job description or to apply, send letter promptly to: R. Foco, University Corporation for Atmospheric Research (UCAR), P.O. Box 3000, Boulder, CO 80307.

Equal Opportunity/Affirmative Action Employer.

DIRECTOR, PESTICIDE AND PLANT PEST MANAGEMENT DIVISION (PPMID), Michigan Department of Agriculture, Lansing, MI 48909

Applications are invited from biochemists with good administrative and communication skills and understanding of pesticide issues. Position requires minimal travel and knowledge of current and past pesticide investigations. Individuals with managerial experience can be considered.

Equal Opportunity/Affirmative Action Employer.

DIRECTOR, CHLOROPLAST GENETICIST M.D./Ph.D. Physician or pathologist preferred. Specialty certification (or equivalent training) and background in clinical diagnostic and research work important. Funded basic research grant support and evidence of productivity critical. Experience in research or training, with a record of scholarly publication and contribution is required. Minimum of 2 years of experience in human cytogenetics necessary. Women and members of minority groups are encouraged to apply. Curriculum vitae to: John E. Craighead, M.D., Department of Pathology, University of Vermont, Burlington, VT 05405. Applications will be accepted until position is filled. Affirmative Action/Equal Opportunity Employer.

DIRECTOR OF RESEARCH AND DEVELOPMENT, LIQUID CRYSTALS. Applicant will conduct research and development into applications and uses of cholesteric and thermotropic liquid crystals for industrial and consumer products and scientific instrumentation. Ph.D. in chemistry. Three years of experience in job desired. Forty hour work week: 8:00 a.m. to 5:00 p.m. $54,600 per year. Please send resume to: Illinois Department of Employment Security, 401 South State Street—3 South, Chicago, IL 60605, Attention: Matthew Kittleson, Reference #90185N. An Employer-paid ad.

THE UNIVERSITY OF TEXAS AT DALLAS
DIRECTOR OF THE INSTITUTE FOR ENVIRONMENTAL SCIENCES

The University of Texas at Dallas seeks applications for a non-faculty research scientist position as Director of the newly established Institute for Environmental Sciences (IES). Through the use of IES, including computer-based modeling, the ability to secure external funding, and experience administering multi-disciplinary teams, IES will attract significant environmental issues by guiding multidisciplinary research that integrates scientific, social, and economic perspectives. Leadership will be required to launch the institute and to persuade specialists from diverse backgrounds to participate in IES research. The successful candidate should have established scientific with competence in computer-based modeling, the ability to secure external funding, and experience administering multi-disciplinary teams. Applications should include: systems ecology or surface or groundwater hydrology. Salary will be commensurate with experience and qualifications. Applications must be received by 15 June 1989 (indication of sex and ethnicity is requested for statistical purposes but is not required) and must contain a resume and a list of references who can be contacted. Applications should be sent to: Search #290, The University of Texas at Dallas, P.O. Box 63888, Richardson, TX 75080-6388. The University of Texas at Dallas is an Affirmative Action/Equal Opportunity Employer.

DIRECTOR, PROGRAM IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY

The University of North Carolina at Chapel Hill is seeking a Director for its established Program in Molecular Biology and Biotechnology. We seek an accomplished scientist interested in providing leadership for a campus-wide program of clinical programs in Global Change. The successful candidate will participate as a faculty member in the Program and as a leader to an established research activity. The level of appointment and salary will be commensurate with qualifications and experience. Applicants should send curriculum vitae, statement of research interests and experience, as well as three letters of recommendation to: Epidemiologist Search Committee, c/o Personnel Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.
PHARMACEUTICAL BIOPROCESS DEVELOPMENT

Hoffmann-La Roche is an internationally recognized leader in the research, development and manufacture of pharmaceuticals and medical products. Due to the planned expansion of our Bioprocess Development and Protein Production operations, we have a variety of opportunities for team oriented Scientists and Engineers with good oral and written communication skills. The chosen candidates will work with multi-disciplinary teams on fermentation, purification and microbiology for antibiotics, vitamins and proteins.

MICROBIOLOGY & FERMENTATION

MICROBIOLOGISTS

The selected candidates will be responsible for developing and optimizing recombinant DNA, antibiotic and vitamin fermentation processes on a laboratory scale, and supporting pilot plant and plant activities. A PhD, preferably in Microbiology, along with extensive industrial experience in microbial biochemistry and molecular genetics are required. A background including the validation of fermentation processes and facilities for biotech products produced under cGMP conditions is desirable. Please refer to position VR-M-19 on resume.

CHEMICAL/BIOCHEMICAL ENGINEER

PILOT PLANT

Responsibilities will include the design, installation and operation of pilot plant and plant fermentation facilities. An MS or PhD in Chemical/Biochemical Engineering is required, along with experience in fermentation process development scale-up, and maintenance and validation of fermentation/recovery facilities for biotech products produced under cGMP conditions. Please refer to position LB-19 on resume.

MICROBIOLOGIST

VALIDATION

Qualifications include an MS in Microbiology and experience in validating fermentation and purification facilities and processes. Knowledge of cGMP and FDA requirements helpful. Please refer to position VR-M-15 on resume.

PROTEIN PURIFICATION

SENIOR SCIENTISTS

Using conventional and state-of-the-art technology, you will be responsible for the isolation and purification of natural and recombinant proteins from bacteria and mammalian cells. In addition, you will plan and design laboratory and production experiments; maintain records; evaluate and draw conclusions from experimental data; and communicate the results in an effective manner. A PhD in Biochemistry plus 2-3 years of postdoctoral experience in enzymology and protein biochemistry is required; knowledge of HPLC and FPLC is desirable. Please refer to position FK-19 on resume.

SCIENTIST

You will be involved in many of the same projects as the Senior Scientists above. A BS/MS (preferably in Biochemistry or a related field) and 6+ years' relevant experience is required; a background including protein immobilization techniques, SDS-PAGE, Western blot, isoelectric focussing and HPLC/FPLC of proteins is also essential. Please refer to position FK-15 on resume.

CHEMICAL OR CHEMICAL/BIOCHEMICAL ENGINEER

You will conceive, plan, evaluate and manage long-range and creative approaches to the development and scale-up of proteins, vitamins and antibiotic purification processes, as well as produce material for clinical trials and the initial product launch. A PhD in Chemical Engineering or Chemical/Biochemical Engineering, relevant academic or industrial background, and knowledge of experience in protein purification and scale-up purification processes are required. Please refer to position VR-E-19 on resume.

You'll enjoy the atmosphere of discovery and our state-of-the-art facilities, as you receive a comprehensive compensation package. In addition, we are conveniently located in suburban New Jersey, 12 miles from New York City. For consideration, please send your resume, indicating the code for the position of interest and present salary (those without this information will not be acknowledged), to: Mrs. Eleanor M. Malone, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.
DNA PROBE GROUP LEADER

ImClone Systems Incorporated, an innovative, rapidly growing biotechnology company is seeking a highly motivated individual to become leader of its DNA probe group.

The successful candidate will be responsible for a multidisciplinary team developing clinical diagnostic products based on ImClone's AmpliProbe® technology. Qualifications include creativity in research and development as demonstrated by successful product introductions and/or publications, as well as leadership and management skills.

Located in Manhattan, ImClone has projects in immunodiagnostics, DNA probe diagnostics, vaccines and therapeutics. ImClone has business relations with several major pharmaceutical companies and draws on a large base of consultants who are pre-eminent in their fields of research.

ImClone offers excellent salary and benefits. Please send your CV and salary requirements to:

M. Satterlee
ImClone Systems Incorporated
180 Varick St.
New York, New York 10014

ImClone Systems Incorporated

POSTDOCTORAL POSITION

Immunoregulation

Bristol-Myers' headquarters for pharmaceutical research and development in Wallingford, Connecticut is a state-of-the-art facility created for the encouragement of professional achievement and interdisciplinary cooperation.

We seek a qualified individual to join an interdisciplinary group working on molecular and biochemical pathways in immunoregulation. Option available for research on regulation of gene expression, signal transduction pathways, and growth factors involved in the modulation of the immune response. A strong background in the modern cellular immunology and/or one of the above areas required. Candidate should have Ph.D. in a relevant biological discipline.

Bristol-Myers offers sustained growth, highly competitive salaries, extensive benefits and career support. Our location is convenient to Connecticut cultural centers, New York and New England. To apply, please send resume to: BRTISTOL-MYERS COMPANY, Pharmaceutical Research & Development Division, Attn: MH149, P.O. Box 5101, S Research Parkway, Wallingford, CT 06492-7661. An Equal Opportunity Employer M/F/H/V.

Bristol-Myers Company

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BUILDING A NEW LAB?

LET THE SCIENCE FREE 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 WE WILL DO THE REST.

WRITE TO:

SCIENCE MAGAZINE NEW LAB SERVICE DEPT.
1515 BROADWAY NEW YORK, N.Y. 10036
BS/MS SCIENTIST
Developmental Toxicology Laboratory

For more than a century, scientists at ELLY LILLY AND COMPANY have developed innovative, high quality pharmaceutical products. Lilly invests over $500 million annually in research and development programs. More than 3,000 scientists at the company's Lilly Research Laboratories are pursuing creative research programs that involve many important health care needs.

To further build its research capabilities, Lilly is seeking a self-motivated, innovative scientist for the Toxicology Division to assist in the development of in vitro laboratory methods used to assess reproductive toxicity and to assist in basic research involving fertilization, cleavage and implantation of eggs/embryos. The ideal candidate will have the following qualifications:

- Bachelor's or Master's degree in Life Sciences with emphasis on reproduction development.
- Good working knowledge of reproductive physiology and experience in culturing of preimplantation embryos.
- Sterile technique and good general laboratory skills with expertise in data analysis using various statistical methods.
- Independent research project on some aspect of reproductive physiology/pharmacology.
- Excellent oral and written communications skills.

Eli Lilly and Company is committed to scientific excellence. Lilly provides a stimulating professional atmosphere with many opportunities for collaborative, multidisciplinary research. The company offers an attractive total compensation program. Entry level and salary will be based upon each candidate's experience. For prompt consideration, please forward your resume to:

Blake A. Caley
Science Recruitment (TGL-1)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285

Postdoctoral Associate
Join Our International Project Team Working Towards A Breakthrough In Crop Improvements

The Agricultural Division of CIBA-GEIGY is respected worldwide for both the quality of its research and the highly accomplished scientists it attracts. We have made a major commitment to expanded research in plant photobiology, at our facility in Research Triangle Park, NC.

As part of the team, you will be working on projects involving the genetic engineering of phytochrome. We welcome your input into research direction.

Individuals with plant molecular biology training or experience in cell biology and/or biochemistry are encouraged to apply. You will find that CIBA-GEIGY offers exceptional career support and advancement opportunities, as well as competitive salary and generous company-paid benefits. Please forward curriculum vitae and 3 letters of professional recommendation to: Dr. Mary-Dell Chilton, CIBA-GEIGY Corporation, Agricultural Division, P.O. Box 12257, Research Triangle Park, NC 27717. We Are An Equal Opportunity Employer M/F/H/V.

Science Serving Mankind

CIBA-GEIGY
POSITIONS OPEN

The Waterloo Centre for Groundwater Research (a Centre of Excellence funded by the Government of Ontario) is seeking applications for a RESEARCH POSITION IN ENVIRONMENTAL BIOCHEMISTRY/MIcroBIOLOGY.

The appointment is with the University of Waterloo at a professorial rank dependent upon qualifications and experience for a term of 5 years contingent upon continued funding. The successful applicant will work as part of a multidisciplinary team involved in research on aspects of groundwater contamination and will develop a research program with major support obtained from industry and government agencies. A candidate with a Ph.D. degree in an area of biochemistry or microbiology with applications to biochemical studies of biodegradation and biotransformation of organic compounds in groundwater will be given preference.

The closing date for applications is upon appointment of a suitable candidate. The appointment will be effective 1 June 1989 or as soon as possible after that date. With permission of Employment and Immigration Canada, competition is open to Canadian citizens, permanent residents and non-Canadians. Please send a complete curriculum vitae and the names, addresses, and telephone numbers of three referees to: D. J. A. Smyth, Manager, Waterloo Centre for Groundwater Research, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1.

EXECUTIVE DIRECTOR CALIFORNIA COUNCIL ON SCIENCE AND TECHNOLOGY

The newly established California Council on Science and Technology seeks applications for its first permanent Executive Director. The Council is a nonprofit association established by a group of California higher education institutions to analyze and report on major policy developments and issues affecting the State's science and technology industries and its economic development and competitiveness.

Responsibilities: Provide administrative and policy guidance to the Council's work; develop and implement procedures for review, and management of Council projects, as well as preparation and dissemination of final reports. Consultation and liaison with government, industry, and other clients, and fundraising. The Executive Office will be located in a major urban area in California.

Qualifications: Extensive administrative and policy experience on issues of science and technology; demonstrated capacity to work in cooperation with the higher education community, business and industry, and state and federal government; and knowledge of science and technology relating to California. Should have a Ph.D. in a relevant discipline or equivalent experience in research policy and management. To apply: Position to be filled 1 September 1989 or earlier; open until filled. Salary and benefits competitive. Applications (letter, résumé, salary history, names of four references) should be sent by 1 June 1989 to:

Chair, California Council on Science and Technology c/o Office of the Chancellor University of California, Davis Davis, CA 95616
An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN PHARMACOLOGY

Applications are invited for a tenure-track faculty position in molecular genetics or immunology. Candidates for either position should have an active, established research program emphasizing biochemical/cellular approaches of cardiovascular and renal function. In addition to performing research directed toward basic science, the successful applicant will direct an undergraduate course in pharmacology and graduate studies. Applicants should submit curriculum vitae, a statement of research objectives, and names of three references to:

Dr. Mustafa E. Lokshndwala, Chairman Department of Pharmacology College of Pharmacy University of Houston Houston, TX 77204-5515
An Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN MARINE REMOTE SENSING

The Applied Ocean Science Program at the University of Delaware's College of Marine Studies invites applications for tenure-track faculty position to start any time after 1 September 1989. Requires Ph.D. in the physical sciences or engineering, with strong background in theoretical and experimental work on hydrologic optics and/or ocean/coastal remote sensing desirable. Involves teaching at the graduate level, and development of an independent, funded research program on the optical and physical properties of particulate and dissolved substances in estuaries and electromagnetic wave interaction with surface films, waves and particles. Opportunity to interact with ongoing research in remote sensing of wetlands and estuarine products, coastal circulation and fronts; air-sea interaction; spectral/spatial analysis of satellite imagery; electromagnetic and sound wave interaction with suspended particles; and Laser Doppler characterization of marine plankton. Salary $35,000. Send résumé with names and addresses of three references to: Dr. Stephen C. Dexter, College of Marine Studies, University of Delaware, Newark, DE 19711. Closing date: 1 July 1989. The University of Delaware is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS IN MOLECULAR BIOLOGY

The Department of Environmental Health at the University of Cincinnati invites applications for two junior tenure-track faculty in the area of molecular biology and genetics. One position is for a FULL PROFESSOR (M.D.) position with international stature to develop and direct a vigorous, externally-funded research program in molecular toxicology. This individual should conduct independent research on such topics as characterization of genes coding for drug-metabolizng enyzmes that break down carcinogens, mutagens, drugs, and other environmental pollutants; with the ultimate goal of designing strategies that will reduce individual risks to cancer. The other position is for aoom committed, highly-motivated, and creative scientist of exceptional ability for the investigation of biological receptor systems and their role in the mediation of cellular responses to hormones and neurotransmitters. These individuals are at increased risk when exposed to environmental/occupational chemicals or drugs. The other position is an ASSOCIATE PROFESSOR. This position requires the conduct of independent research in the areas of DNA replication and mutagenesis in eukaryotic systems. The successful candidate will be expected to work collaboratively with other research investigators in the field and to obtain significant research support. Responsibilities include the design and evaluation of experiments in the areas of DNA replication and mutagenesis. Candi-

dates should submit a letter of application, a current curriculum vitae, and three letters of reference to: Dr. Dale B. Johnson, Chairman, Molecular Biology Search Committee, Department of Environmental Health, University of Cincinnati, Cincinnati, OH 45267 by 1 June 1989. The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

FACULTY POSITION IN DEPARTMENT OF MICROBIOLOGY, GENETICS AND IMMUNOLOGY to participate in basic research in immunology and molecular biology of bacterial lipo-poly saccharide receptor molecules on lymphocytes and macrophages. Salary $25,000 to $35,000. Ph.D. in immunology, molecular biology, biochemistry, or related field required. Applicants with 5 years of relevant postdoctoral experience. Send letter of inquiry to: David C. Morris, Chairman, Department of Microbiology, 39th Rainbow Boulevard, 3026 WHW, Kansas City, KS 66103. An Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION

Department of Physiology and Biophysics, University of Southern California (USC) School of Medicine. Assistant or associate professor, tenure-track, to conduct independent research program and teach. Experimental background in renal physiology, experience in computer simulation, and interest in the analysis of non-linear complex systems strongly preferred. Applications, including curriculum vitae, and three letters of reference should be sent to: Dr. Donald J. Marsh, Department of Physiology and Biophysics, USC School of Medicine, 1333 San Pablo Street, Los Angeles, CA 90033.


USC is an Affirmative Action/Equal Opportunity Employer.

GENPROBE TECHNOLOGIES LTD.

Genprobe Technologies Ltd., a publicly-traded (VSE listing; GPO) biotechnology company located near Victoria, B.C., Canada, is seeking two outstanding recently-graduated Ph.D. level scientists.

Position 1- Protein Biotechnologist (CMB-1)

The successful candidate will participate in an active R&D program to develop drug delivery systems. This unique position offers an opportunity to work with leading researchers in a combined industrial, university, and government research program. Experience in membrane/biochemistry or pharmacology of prokaryotes would be an asset.

Position 2- Environmental Microbiologist (CBR-1)

The successful candidate will join a team of scientists developing innovative technologies for the detection of natural and genetically-engineered organisms in natural environments. Experimental experience with soil or water systems is required. Previous experience with any of polycyclic, monomolecular or DNA-based technologies would also be an asset.

The preferred candidates for these positions will have R&D potential and a commitment to a biotechnology company with close ties to university and government research environments. Genprobe offers a competitive salary and benefits package, in addition to an excellent opportunity for scientific and personal development.

Please submit two copies of your resume by May 26, 1989 to:

Genprobe Technologies Ltd.
P.O. Box 1010
101-9065 West Saanich Rd.
Sidney, British Columbia
Canada
V8L 3S3

POSTDOC TraINING PROGRAM IN IMMUNOLOGY

Postdoctoral training in immunology is offered at Duke University Medical Center. Fellowships in laboratories conducting research in molecular genetics, molecular immunology, immunogenetics, developmental biology, cellular immunology, immunochemistry, transplantation and tumor immunology, immunopathology, and allergy and autoimmune diseases are available. Fellowships are open to U.S. citizens and foreign nationals with permanent resident visas holding the Ph.D., M.D., or equivalent degrees who have had fewer than 3 years of postdoctoral experience. Send letters of inquiry to:

Dr. Frances E. Ward
Department of Microbiology and Immunology
Box 3010
Duke University Medical Center,
NC 27710
An equal opportunity/affirmative action employer.
The Universities of Strasbourg, Freiburg im Breisgau, Karlsruhe and Basel have created a trinational curriculum in Biotechnology. The Faculty of Sciences of the University of Basel has assumed the responsibility for the teaching of Microbiology in this curriculum, and for this purpose a new Professorship in Biotechnology has been funded for January 1, 1990.

The duties will include:
- Organisation and execution of Microbiology teaching in the new curriculum with the help of the existing infrastructure.
- Research on an aspect of Microbiology relevant to Biotechnology.
- Participation in advanced level teaching at the Biozentrum of the University of Basel.

The University will provide core support in the form of salaried positions, equipment and running expenses.

Applications including a curriculum vitae, list of publications, reprints of about five representative publications, a short overview of past and planned research activities and a description of teaching experience should be submitted before June 1, 1989, to the Dean of the Faculty of Sciences at the following address:

Dekan der Philosophisch-Naturwissenschaftlichen Fakultät, Klingelbergstrasse 23, CH-4056 Basel, Schweiz.

Further information on the curriculum in Biotechnology and on the Biozentrum is available on request.

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**Immunology and Infectious Diseases Research Assistants**

Pfizer Central Research seeks several innovative research assistants to join our Immunology and Infectious Diseases Department in Groton, Connecticut. Our research assistants collaborate with highly motivated scientists carrying out basic research on the pathogenesis of human infectious diseases in order to advance our drug discovery and medicinal research programs.

You should have a BS or MS degree in biological science with relevant laboratory experience involving biochemistry, microbiology or immunology. In addition, strength in any one or combinations of the following is considered a plus:

- An understanding of the basic mechanisms of pathogenesis of infectious diseases
- Protein/enzyme purification and assays; FPLC expertise
- Mammalian cell culture
- Manipulation of DNA and gene expression in bacteria/mammalian cells
- Immunological techniques

Pfizer offers a stimulating scientific research environment with the opportunity to interact with scientists from several disciplines. In addition, Pfizer has a competitive compensation/benefit package along with relocation assistance to this southeastern Connecticut shoreline community. Please send a description of your research experience and names of three references to: Mrs. Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.

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**CANCER PREVENTION FELLOWSHIP PROGRAM**

The Division of Cancer Prevention and Control (DCPC) is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The purpose of this program is to attract individuals from a multiplicity of health science disciplines into the field of cancer prevention and control. The program provides for:

- Participation in the DCPC Cancer Prevention and Control Academic Course;
- Working at NCI directly with individual preceptors on cancer prevention and control projects;
- Brief assignments in cancer prevention and control programs at cancer centers, State Health Departments or other institutions. Funding permitting, ten Fellows will be accepted for up to three years of training, beginning July 1, 1990. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

**ELIGIBILITY**

1. M.D. or D.O. from a U.S., territorial, or Canadian Medical School. Foreign medical graduates must have current ECFMG/FMGEMS certification and one year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

   OR

2. Ph.D., Dr. P.H. or other doctoral degree in a related discipline (epidemiology, biostatistics, biomedical, nutritional, public health or behavioral sciences). Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

3. U.S. citizenship or resident alien eligible for citizenship within four years.

For details and application packet send a POSTCARD with your name and home address to:

Douglas L. Weed, M.D., Ph.D.
Cancer Prevention Fellowship Program
Division of Cancer Prevention and Control
National Cancer Institute
Executive Plaza South, T-41
Bethesda, MD 20892

Further inquiries: Mrs. Barbara Redding, (301) 496-8640 or 496-8641.

**DEADLINE FOR RECEIPT OF APPLICATIONS: SEPTEMBER 8, 1989.**

NIH is an equal opportunity employer.
**POSITIONS OPEN**

**FACULTY POSITION IN MOLECULAR BIOLOGY**

To lead a vigorous research and graduate program in the Department of Pharmacology and Molecular Pharmacology. The successful candidate will have a strong research program investigating gene function and drug mechanisms, with an emphasis on molecular biology and biotechnology. The candidate will be expected to develop an active research program, supervise graduate students, and teach an advanced course in molecular biology. The position is available from September 1, 1989. Interested applicants should send a letter describing research interests and the availability of funding. The successful candidate will receive tenure with a 5-year review process.

**FACULTY POSITIONS IN MOLECULAR BIOLOGY AND MOLECULAR PHARMACOLOGY**

The Department of Pharmacology and Molecular Biology at the University of Colorado Health Sciences Center is seeking candidates for faculty positions at the Assistant, Associate, or Full Professor level. Candidates should have a strong research program in molecular biology and molecular pharmacology and be prepared to contribute to the training of graduate students and postdoctoral fellows. The successful candidate will have a strong research program, supervise graduate students, and teach an advanced course in molecular biology. The position is available from September 1, 1989. Interested applicants should send a letter describing research interests and the availability of funding. The successful candidate will receive tenure with a 5-year review process.

**POSITIONS OPEN**

**FUNGAL MOLECULAR EVOLUTION**

Two POSTDOCTORAL POSITIONS are available for a period up to 3 years to study the molecular evolution of fungal pathogens. The project will use molecular phylogenetics to trace the evolution of fungal pathogens. The successful candidate will have a strong research program in molecular biology and biotechnology. The position is available from September 1, 1989. Interested applicants should send a letter describing research interests and the availability of funding. The successful candidate will receive tenure with a 5-year review process.

**POSITIONS OPEN**

**MICROBIOLOGIST**—Senior Project Microbiologist—Merck & Co., Inc., West Point, PA 19486. Salary: $20,000-$30,000. Responsibilities include: performing research on the molecular mechanisms of drug resistance; analyzing data; and writing reports. Applicants should have a Ph.D. in microbiology or a related field. Experience in research and a minimum of 2 years of experience in a similar position are required. Applications should be sent to: Mr. M. J. Fuss, Department of Microbiology, Merck & Co., Inc., West Point, PA 19486.

**OREGON HEALTH SCIENCES UNIVERSITY CENTER FOR RESEARCH ON OCCUPATIONAL AND ENVIRONMENTAL TOXICOLOGICAL SCIENCES**

Newly created, state-supported, multidisciplinary Center in neurotoxicology seeks postdoctoral fellowship in the field of neurotoxicology. The successful candidate will have a strong research program in molecular biology and molecular pharmacology and be prepared to contribute to the training of graduate students and postdoctoral fellows. The position is available from September 1, 1989. Interested applicants should send a letter describing research interests and the availability of funding. The successful candidate will receive tenure with a 5-year review process.

**POSITIONS OPEN**

**MEDICAL RETINA SPECIALIST**

Full-time assistant professor in the Department of Ophthalmology at the University of Pennsylvania is seeking candidates for the position of Medical Retina Specialist. The successful candidate will have a strong research program in molecular biology and molecular pharmacology and be prepared to contribute to the training of graduate students and postdoctoral fellows. The position is available from September 1, 1989. Interested applicants should send a letter describing research interests and the availability of funding. The successful candidate will receive tenure with a 5-year review process.

**POSITIONS OPEN**

**NEUROSCIENTISTS, CELL AND MOLECULAR BIOLOGISTS**

Tenure-track faculty positions are available in the Department of Pharmacology and Molecular Pharmacology. The successful candidate will have a strong research program in molecular biology and molecular pharmacology and be prepared to contribute to the training of graduate students and postdoctoral fellows. The position is available from September 1, 1989. Interested applicants should send a letter describing research interests and the availability of funding. The successful candidate will receive tenure with a 5-year review process.

**POSITIONS OPEN**

**PHARMACOLOGIST (RESEARCH SCIENTIST)**

High-level research to optimize stability and quality of products. Study bioavailability problem for new drugs based upon application of physical pharmacy and pharmacological methods. Experience in utilizing HPLC, X-ray diffractometer, IR, DSC, and knowledge of in vitro evaluation techniques. Formulate and characterize various new drug delivery systems. Forty hours; $48,000 per year. Advanced coursework in controlled drug delivery required. Ph.D. in pharmacology.

**POSITIONS OPEN**

**UNCOLLEGE, EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER**

Professor of Pharmacology and Molecular Pharmacology at the University of Pennsylvania is seeking candidates for the position of Professor of Pharmacology and Molecular Pharmacology. The successful candidate will have a strong research program in molecular biology and molecular pharmacology and be prepared to contribute to the training of graduate students and postdoctoral fellows. The position is available from September 1, 1989. Interested applicants should send a letter describing research interests and the availability of funding. The successful candidate will receive tenure with a 5-year review process.

**CONFERENCE ON TOXICOLOGY**

The Conference on Toxico l ogy is an annual meeting, which brings together scientists from a variety of disciplines to discuss the latest developments in the field of toxicology. The conference is held at the University of California, San Francisco, and the registration deadline is September 1, 1989. Interested applicants should send a letter describing research interests and the availability of funding. The successful candidate will receive tenure with a 5-year review process.

**POSTDOCTORAL ASSOCIATE IN BEHAVIORAL NEUROPHARMACOLOGY**

The Department of Pharmacology at the University of California, Los Angeles, is seeking a Postdoctoral Associate to join a research program examining the role of endogenous opioids in Pavlovian conditioning. The position is available from September 1, 1989. Interested applicants should send a letter describing research interests and the availability of funding. The successful candidate will receive tenure with a 5-year review process.

**POSITIONS OPEN**

**INTERNAL MEDICINE**

Full-time, 12-month position in the Department of Medicine at the University of California, San Francisco. The successful candidate will have a strong research program in molecular biology and molecular pharmacology and be prepared to contribute to the training of graduate students and postdoctoral fellows. The position is available from September 1, 1989. Interested applicants should send a letter describing research interests and the availability of funding. The successful candidate will receive tenure with a 5-year review process.

**POSITIONS OPEN**

**NEUROPHARMACOLOGY**

The Department of Pharmacology and Molecular Pharmacology at the University of California, Los Angeles, is seeking candidates for the position of Professor of Pharmacology and Molecular Pharmacology. The successful candidate will have a strong research program in molecular biology and molecular pharmacology and be prepared to contribute to the training of graduate students and postdoctoral fellows. The position is available from September 1, 1989. Interested applicants should send a letter describing research interests and the availability of funding. The successful candidate will receive tenure with a 5-year review process.
SENior Drug Evaluators

If you see yourself as part of a multidisciplinary scientific community responsible for safe and effective drugs in this country, the Health Protection Branch, Drugs Directorate in Ottawa can meet your professional aspirations. Right now, we are actively seeking energetic scientists who want a new challenge in one of the following divisions:

- Infection & Immunology
- Endocrinology, Metabolism and Allergy
- Cardiovascular
- Central Nervous System
- Gastroenterology, Hematology and Oncology
- Biopharmaceutics and Pharmacokinetics Evaluation

As a Senior Drug Evaluator, you will draw on your scientific expertise to assess animal data from pharmacology and toxicology studies, microbiology, human pharmacokinetic studies, and clinical trials on potential new drugs. In order to critically analyze data and formulate recommendations pertaining to the Food and Drugs Regulations, you must have a doctorate degree from a recognized university in basic medical sciences such as pharmacology, toxicology, biochemistry, virology, bacteriology, physiology, immunology or pharmacokinetics.

If you have this background, along with post-doctoral research experience in an academic or industrial environment, and a proven publication record, the Drugs Directorate offers unique and challenging opportunities in the federal safeguard of drugs. Enjoy excellent benefits and relocation program and compensation, as well as a high quality of life in the Nation’s Capital. Knowledge of English is essential, and preference will be given to Canadian citizens.

Salary: Up to $55,591.00 (under review)

For additional information, call Dr. V. Krupa at 1-800-267-1649, or forward your resume along with copies of your previously published works, quoting reference number S-89-31-5203-47JG G35 and your area of interest, to Joan Girling, Public Service Commission of Canada, 171 Slater Street, Ottawa, Ontario K1A 0M7.
**Protein Chemist**

Pfizer Central Research wishes to add a scientist experienced in protein purification to its Molecular Genetics Research Department. You will be involved in the microisolation of membrane transport, ion channel and receptor proteins with the objective of obtaining structural information for the purpose of cloning.

You should possess a BS or MS degree in a relevant field and have 2 to 6 years experience in an industrial or academic laboratory dedicated to microscale protein purification. Knowledge of immunochemical techniques desirable.

Pfizer offers a stimulating scientific research environment with the opportunity to interact with scientists from several disciplines. In addition, we offer a competitive compensation/benefit package along with relocation assistance to this southeastern Connecticut shoreline community. Please send a resume, a description of your research experience, and names of three references to: Mrs. Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.

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**Programmer/Analyst**

Merck Sharp & Dohme Research Laboratories is currently offering an excellent career opportunity for an enterprising individual with a blend of scientific and computer expertise who will contribute to our dynamic scientific research environment. The successful candidate for this position will use his or her strong technical and interpersonal skills, as well as excellent verbal and written communications skills to interact with the scientific and corporate computing staffs.

The qualified candidate will possess an advanced degree in a biological, physical, or computer-related discipline, as well as experience in the development of real-time data acquisition and analysis applications in a research laboratory setting. The incumbent will facilitate computing solutions to diverse problems through the innovative use of VAX, IBM, Macintosh, and other resources. Interest in the identification and evaluation of advanced scientific computing technologies and novel approaches to their incorporation is required.

Merck & Co. is the world leader in Medical Research offering excellent Salary & Benefits programs which accompany this position at our West Point, PA research facility.

Please send your resume and salary requirements in complete confidence to:

Ad. (B-16) Research Personnel (WP42-2)

**Merck Sharp & Dohme Research Laboratories**

West Point, PA 19486

**EEO/AA/VH/Employer**

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**KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH**

Kuwait Institute for Scientific Research (KISR) is a nonprofit organization with a staff of more than one thousand employees engaged in applied research in the fields of environmental and earth sciences; water resources; food resources; engineering; petroleum, petrochemicals and materials and techno-economics.

KISR has a vacancy in the following field:

**SOIL CHEMISTRY/PEDOLOGY**

- **Major Duties:**
  - Developing and evaluating land reclamation practices and suggestions of strategies for arid soils.
  - Evaluating of planting sites, fertilizer requirements and crop nutrition.
  - Developing amelioration practices to improve soil structure by use of organic matter, chemical and synthetic amendments.
  - Evaluating soil surveys and land classification.

- **Qualifications:**
  - Applicants should have a Ph.D. in Soil Chemistry or Pedology with 5 to 10 years of experience in land reclamation, crops nutrition and fertilization requirement for field crops. Excellent knowledge of laboratory and field techniques for evaluation of physical and chemical properties of soils in addition to good understanding of soil surveys and irrigation systems.
  - KISR offers attractive tax free salaries commensurate with qualifications and experience and generous benefits that include gratuity, free furnished air-conditioned accommodation, school tuition fees for children, contribution to a savings plan, six weeks annual paid vacation, air tickets, free medical care and life insurance.

Interested applicants are requested to send their Curriculum Vitae with supporting information not later than one month from the date of this publication, to:

**Director General**

**Kuwait Institute for Scientific Research**

P.O. Box 24885 Safat

13109 Safat—KUWAIT.

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**Biology & Chemistry Research Scientists**

Gilead Sciences, a pioneer in the field of genetic targeting, is designing novel compounds that selectively inhibit gene expression for use in human therapeutics. Talented, highly motivated individuals should apply.

Ph.D. Molecular and Cellular Biologists with strong nucleic acid-related research experience are sought to study the regulation of cellular and viral gene expression using compounds that interact directly with DNA and RNA. Cellular recognition, uptake and transport of exogenous compounds is also an area of concentration.

Ph.D. Organic Chemists with strong synthetic research experience are sought to join our chemistry group in developing novel heterocyclic compounds and oligonucleotide derivatives.

Gilead Sciences offers a challenging research environment with excellent salary, benefits and location in the San Francisco Bay Area. Strict confidentiality is assured.

Please send C.V. and reference information to: Jeffrey Bird, Ph.D., Gilead Sciences, Inc., 344 Lakeside Drive, Foster City, CA 94404. Please refer to this ad in your correspondence.
The Intramural Research Program of the National Institute on Aging (NIA), Baltimore, Maryland invites nominations and applications for the position of Chief, Laboratory of Molecular Genetics. This is a Civil Service Position with a salary range of $57,158 to $74,303 per annum depending upon qualifications. Candidates may be eligible for Physician's Comparability Allowance up to $20,000 per year. Alternatively, candidates may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.

The Chief of the Laboratory of Molecular Genetics is responsible for planning, directing and conducting research programs which use molecular and genetic approaches to the study of aging and related processes: for recruiting staff and providing professional leadership for senior staff in their projects; and for originating, designing, and conducting independent and collaborative research on age and disease related alterations in the structure and regulation of genes.

Applicants must have a Doctoral degree with a record of outstanding scientific accomplishment in the field of Molecular Genetics. In addition, applicants should possess qualifications that demonstrate competence in executive level management and leadership ability.

Further information may be obtained by contacting Ms. Barbara Hughes at (301) 550-1733. An Application for Federal Employment (SF-171) with a current curriculum vitae and bibliography should be submitted to:

Personnel Office, Gerontology Research Center
National Institute on Aging
4940 Eastern Avenue
Baltimore, Maryland 21224.

APPLICATIONS MUST BE POSTMARKED NO LATER THAN MAY 31, 1989.

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

U.S. Citizenship is required.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
POSITIONS OPEN

OBSEERVATORY SOFTWARE (fixed-term position): A software engineer is required to work on the Space Craft Manifestation System at the Joint Astronomy Centre (JAC). The spacecraft is a state-of-the-art 15-m dish optimized to work at submillimeter wavelengths; it is situated on the Keck area. A Bachelor's degree in computer science, astronomy, or physics is required. The JAC offers competitive salary with benefits. Applications should be submitted to: M. W. K. Johnson, Joint Astronomy Centre, 665 Koomanona Street, Hilo, HI 96720.

POSTDOCTORAL FELLOWSHIP available immediately to study host defense mechanisms which function in invasive bacterial disease. Experience with isolation of metabolic enzymes (e.g., P450), development and use of DNA probes of P450 enzymes or study of transport and metabolism of drugs using in vitro cell culture techniques is preferred. The position offers a unique opportunity to work in a multidisciplinary environment. Submit curriculum vitae and three letters of reference to: Dr. J. D. Unadkat, Department of Pharmacology, BG-20, University of Washington, Seattle, WA 98195. Telephone: 206-545-2869. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP available immediately to work on a unique opportunity to work in a multidisciplinary environment. Submit curriculum vitae and three letters of reference to: Dr. J. D. Unadkat, Department of Pharmacology, BG-20, University of Washington, Seattle, WA 98195. Telephone: 206-545-2869. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP—University of North Carolina at Chapel Hill. Protein Chemistry and Enzymology of Blood Coagulation. Completion of advanced degree (Ph.D., M.D. and/or D.D.S.) required. Prefer previous background in protein chemistry, site-specific mutagenesis, PCR reaction, enzyme kinetics, receptor characterization, or protein solution conformational analysis. Send curriculum vitae and letter of recommendation to: Dr. Roger Landsbøll, Dental Research Center, CB#7455, School of Dentistry, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7455. Equal Opportunity Employer.

Position available for a POSTDOCTORAL FELLOW (M.D., Ph.D.) interested in experimental carcinogenesis and having experience with molecular biology. Please submit curriculum vitae and three letters of reference to: Ms. A. Roman-Koller, Research Administrator, University of Pittsburgh, Department of Pathology, School of Medicine, 776 Scale Hall, Pittsburgh, PA 15261. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS DEPARTMENT OF BIOCHEMISTRY UNIVERSITY OF WASHINGTON

Two postdoctoral positions are available to study the regulation of expression of collagen and thrombospondin genes. Research will focus on (i) protein-DNA interactions and the isolation of transacting factors; (ii) modulation of gene expression by growth factors and cytokines; (iii) role of thrombospondin in regulation of vascular smooth muscle cell growth; (iv) targeted gene disruption by homologous recombination. Experience in eukaryotic molecular biology and/or protein chemistry/cell biology is desirable. Send curriculum vitae, a statement of research interests, and three letters of reference to:

Dr. Paul Bornstein
Department of Biochemistry, SJ-70
University of Washington
Seattle, WA 98195

Associate Senior Investigator/Senior Investigator

Smith Kline and French Laboratories, a leader in the pharmaceutical industry, is seeking Associate Senior Investigator/Senior Investigator level scientists for our Biological Process Sciences Department. The successful candidate will manage and carry out large scale purification process development of recombinant proteins.

Qualified applicants will possess:

- Ph.D. in Chemical, Biochemical, or Biological Sciences with 3 or more years of relevant experience in large scale purification of biologically active proteins
- Experience in design and scale up of purification processes for recombinant proteins derived from microbial fermentation or cell culture technologies
- Thorough knowledge of protein chemistry including experience in protein folding techniques
- Experience in analytical and preparative HPLC desired

We offer an excellent compensation, benefits and relocation package, as well as opportunities for personal and professional growth. For confidential consideration, please forward your resume with background and experience to: Ms. Barbara J. Schwartz, Employment Administrator, S0104, Smith Kline & French Laboratories, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.

Molecular Biologists/Virologists

Wyeth-Ayerst, a recognized world leader in the production of a wide range of highly advanced pharmaceuticals, has an opening for a research assistant in its Microbiology and Biotechnology Division.

We are currently seeking a scientist to prepare recombinant viral vectors. To qualify, you must have a strong background in molecular biology and virology. Experience with most areas of recombinant DNA technology including construction of recombinant viral vectors, DNA sequencing, Northern and Southern hybridization analysis is desirable. A BS/MS and 3+ years of relevant experience are essential.

In return, we offer a challenging progressive environment coupled with a highly competitive salary and comprehensive benefits. For confidential consideration, forward your resume with salary requirements to: Recruitment Manager, Position #29, Wyeth-Ayerst Laboratories, P.O. Box 8299, Philadelphia, PA 19101. Equal Opportunity Employer, M/F/H/V responses encouraged.
IMMUNEX CORPORATION, a Seattle-based biotechnology company at the forefront of research and development in immune regulation, has a number of positions open as a result of an expansion in our research activities. We are recruiting:

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**STAFF SCIENTISTS AND POSTDOCTORAL FELLOWS**

with experience in the following areas:

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**Mammalian Cell Fermentation**

Applicants are needed to contribute to the mammalian cell fermentation research program. The position requires a background in mammalian cellular physiology, biochemical engineering or fermentation. Familiarity with a variety of culturing methods, cell culture scale-up, and downstream processing is desirable.

**Process Development/ Biochemical Engineers**

Staff Scientists are required to work on purification scale-up and characterization of recombinant proteins expressed in microbial and mammalian cell hosts.

**Experimental Hematology**

Researchers are needed for development of *in vitro* and *in vivo* models of hematopoiesis. Particular emphasis will be placed on the establishment of assays having the capacity to detect novel hematopoietic growth factors.

**Proteolytic Enzymes**

A scientist is needed to purify and characterize therapeutically important mammalian and microbial proteases in conjunction with a team providing recombinant proteases and protein engineering for structure to function studies. Preference will be given to candidates with experience in the design of protease substrates and inhibitors coupled with a strong background in determining enzyme kinetic and thermodynamic constants.

**Immunology**

The Dept. of Immunology is recruiting scientists with expertise in the following areas: 1. Autoimmunity. Must have extensive background and working model(s) for autoimmune diseases; and, 2. Immunologist with extensive expertise in monocyte/macrophage biology. Working familiarity with human cells is preferred but not essential.

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Staff Scientist candidates should hold a PhD degree and possess significant postdoctoral experience demonstrating independent research skill and creativity and will have demonstrated an ability to work in a collaborative environment. Successful candidates for postdoctoral fellowship positions should have completed a PhD degree and no more than two years’ postdoctoral training.

Immunex Corporation offers excellent opportunity for career development as well as competitive salaries and an excellent benefits package. For consideration, please submit CV., names of three references, and a list of publications to: Immunex Corporation, Human Resources Director, 51 University Street, Seattle, WA 98101. Immunex is an equal opportunity employer m/f/h.
POSTDOCTORAL POSITION available immediately to study the metabolism of chemical carcinogens by cytochrome P-450. Opportunities are available to study the purification of different forms of cytochrome P-450, to study their regulation by immunological techniques, and to study their role in the metabolism of xenobiotics and steroid hormones. The position will be available 15 June 1989, and will pay $21,000 per annum. Send curriculum vitae, list of references, and three letters of reference to: K. C. Kosekey, Department of Microbiology, Montana State University, Bozeman, MT 59717-7001; or call (406) 245-6136. MSU is an Equal Opportunity/Affirmative Action Employer. Screening begins 26 May 1989 and continues until hire is made.

POSTDOCTORAL POSITION available immediately to study the biochemistry of chemical carcinogens by cytochrome P-450. Opportunities are available to study the purification of different forms of cytochrome P-450, to study their regulation by immunological techniques, and to study their role in the metabolism of xenobiotics and steroid hormones. The position will be available 15 June 1989, and will pay $21,000 per annum. Send curriculum vitae, list of references, and three letters of reference to: K. C. Kosekey, Department of Microbiology, Montana State University, Bozeman, MT 59717-7001; or call (406) 245-6136. MSU is an Equal Opportunity/Affirmative Action Employer. Screening begins 26 May 1989 and continues until hire is made.

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Executive Director

Commission on Behavioral and Social Sciences and Education

The National Research Council (NRC), the principal operating arm of the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine, a nationally prominent non-profit, non-government institution located in Washington, D.C., invites applicants for the position of Executive Director of the Commission on Behavioral and Social Sciences and Education. The Commission is a major source of expertise and analysis of issues and problems arising in the fields. A staff of approximately 50 professionals supports the work of the committees and panels of the Commission.

The Executive Director manages the Commission as one of eight major program units of the NRC. His or her responsibilities include: program initiation; administration and review; development of funding and budgets; and recruitment and supervision of staff.

Applicants should have the following qualifications: Ph.D. or equivalent in one of the behavioral or social sciences and at least 15 years of experience in research, research administration, or the application of research to public policy; familiarity with U.S. Government sponsorship of research in the social sciences and education and the Government's need for related advice and studies; and demonstrated staff and financial management capability.

Applicants should send résumé to:

Executive Officer
National Research Council
2101 Constitution Avenue, N.W.
Washington, D.C. 20418

An Equal Opportunity Employer.

Metabolism and Pharmacokinetics

The Bristol-Myers Pharmaceutical Research and Development Division has career opportunities in its Metabolism/Pharmacokinetics Group located in Syracuse, New York. This Group plays a major role in drug development and worldwide drug registration by developing pharmacokinetic, metabolic and biopharmaceutic information from preclinical and clinical trials of candidate drugs targeted for treatment of cancer, infectious diseases, cardiovascular diseases, and central nervous system disorders.

RESEARCH SCIENTISTS/PhDs

To design and implement studies to determine the pharmacokinetic and metabolic behavior of candidate drugs in animals and humans. Must have ability to lead and motivate a professional staff. Qualifications include 0-3 years post doctoral experience in drug metabolism and pharmacokinetics, identifying/quantifying drugs and their metabolites in biological fluids. Ph.D in Pharmaceutical Sciences, Pharmacology, Biochemistry or related field required. Computer literacy is essential.

We offer a competitive compensation package and a comprehensive benefit program which includes relocation assistance to a superb upstate NYC living area. Interested candidates should submit a resume indicating area of interest, salary history and requirement, to: EMPLOYMENT MANAGER.

BRISTOL-MYERS COMPANY RESEARCH AND DEVELOPMENT DIVISION
PO. Box 4755, Syracuse, New York 13221-4755
An equal opportunity employer M.F.H.V

Postdoctoral Researchers

Genentech, Inc., a leader in the field of biotechnology, has added a dimension to our existing postdoctoral training program. This new program, administered by Dr. David Botstein, features opportunities for research and training across the whole spectrum of Research and Development. A number of positions is currently available in this new program.

Genentech is committed to maintaining a standard of excellence that encourages creativity and provides personal and professional growth. Many postdoctoral alumni have gone on to academic positions at major research universities, or have gone on to research positions in the biotechnology industry.

We expect Genentech Postdoctoral Fellows to conduct independent research in the areas of our scientific interests, publish in the leading scientific journals, attend and present their work at scientific conferences, and maintain close ties with the academic community.

Genentech offers an attractive salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For consideration, please send your resume to: Genentech, Inc., Attn: Yvonne Davino, Human Resources Dept. DB, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support Affirmative Action and Equal Opportunity. Women and minorities are encouraged to apply.

RESEARCH POSITIONS

SIBIA is an established biotechnology company involved in a wide spectrum of innovative research programs. SIBIA, with a staff comprised of leading scientific members, provides an exceptional scientific research environment in which to work, near the ocean in La Jolla. Applications are requested for the following positions:

Ph.D. MICROBIOLOGY

Excellent position available for a Ph.D. with training and abilities in general microbiology, particularly of anaerobes; should also have abilities in microbial physiology and related analytical biochemical. Work will include research in microbial ecology of fresh fish and salt water systems. Candidate should also have interest in broad areas of microbiology.

Ph.D. MOLECULAR BIOLOGY/RETROViroLOGY

Position involves new tools to study the epidemiology of HIV-1 infection and the viral genes responsible for cia and trans regulatory function. Experience in the growth of HIV-1 or animal retrovirus nucleic acid hybridization and cDNA cloning. At least a 1-year postdoctoral position preferred.

Ph.D. BIO-ORGANIC CHEMISTRY

Ph.D. in Chemistry with 1-2 years postdoctoral training. Experience in synthetic organic chemistry, peptide chemistry, and enzymology. Responsibilities will include the design and synthesis of peptide analogs directed toward development of new pharmaceuticals. We offer a competitive benefits package and competitive salaries. For confidential consideration, please submit your curriculum vitae, a statement of research interests and goals, and the names of three professional references to: SIBIA, Dept. 3, 505 Coast Boulevard South, La Jolla, CA 92037.

SIBIA

The Salk Institute
Biotechnology/Industrial Associates, Inc.

An equal opportunity employer M/F/V
POSTDOCTORAL POSITION—REGULATION OF DIGESTIVE ENZYME SYNTHESIS. Position available immediately to study the effects of alcohol consumption on the mechanisms that control the synthesis and secretion of pancreatic digestive enzymes. The laboratory is involved with a team of researchers with expertise in the areas of biochemistry, biophysics, physiology, and pathology. Prior experience in the area of molecular biology is desirable. Send curriculum vitae and names of three references to: Dr. B. C. Connelly, 271 Jefferson Hall, Thomas Jefferson University, Philadelphia, PA 19107. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available for recent Ph.D.’s to participate in an active research program on the structure, regulation and expression of DNA repair genes in human cells. Current efforts focus on the transcriptional expression of DNA repair genes and the intracellular localization of DNA repair enzymes in relation to DNA damage and repair. Submit curriculum vitae and list of references to: Dr. Michael K. Sirover, Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available immediately in human immunology. Research interests include: immune function, human renal function, and a transplant; structure-function relationship of non-MHC antigens of human kidneys and endothelial cells; and biochemical and molecular characterization of lymphoid antigens and receptors. Experience in cellular immunology and/or molecular biology is desirable. Send resume, a brief statement of research interests, and names of references to: Dr. T. Scully, Washington University Medical Center, Departments of Surgery and Pathology, Box 8109, St. Louis, MO 63110.

POSTDOCTORAL POSITIONS BEHAVIORAL NEUROSCIENCE Two positions are available as of 1 July 1989 to study the functional neuroanatomy, neurochemistry and cellular basis of brain reinforcement mechanisms. A multidisciplinary approach to the understanding of the nature of and interactions between drugs of abuse, rewarding brain stimulation and natural reinforcers is emphasized. Applicants are sought with backgrounds in neuropharmacology, neurophysiology and/or physiologic psychology. The Medical College of Wisconsin is experiencing rapid expansion in the neurosciences and provides excellent research facilities and opportunities for interaction between different areas of biological faculty. Send curriculum vitae, three letters of recommendation and a statement of research interests to: Dr. Elliot A. Stein, Department of Psychiatry, Medical College of Wisconsin, 9455 Watertown Plank Road, Milwaukee, WI 53226. Affirmative Action/Equal Opportunity Employer M/F/H.

POSTDOCTORAL POSITIONS: MICROBIAL ECOLOGY. Apply immunological methods to examine nitrogenase and toxins in aquatic cyanobacteria. RIVER ECOLOGY. Experience with algal nutrient transformations and major nutrient transformations in a large river. Salaries $22,000/12 months, chances of additional funding good. Send two letters of reference to: Dr. J. Prisco, Department of Biology, Montana State University, Bozeman, MT 59717. Affirmative Action Employer.

TWO POSTDOCTORAL POSITIONS IN PROTEIN CRYSTALLOGRAPHY AND ENGINEERING. One position is for a macromolecular crystallographer to work on cytochrome P-450 and related systems. The second is for a biocatalyst/biochemist interested in working with recombinant DNA technology and on the effect of prokaryotic cells in host enzyme protein engineering. Contact: Dr. T. L. Poulos, University of Maryland’s Center for Advanced Research in Biotechnology, 5600 Gudelsky Drive, Rockville, MD 20850.

POSTDOCTORAL POSITIONS currently available to study the biochemistry and physiology of the 70-kDa heat shock protein, which includes the brain uncoating ATPase which dissociates clathrin from coated vesicles during endocytosis. The focus of the work will be on the functional properties of the 70-kDa heat-shock proteins, in particular, the properties of the uncoating ATPase which we are presently cloning. Additional information may be obtained from: Dr. Lois Greene on 301-496-1228. Please send curriculum vitae and three letters of recommendation to: Marvin J. Connolly, NIH, Building 2, Room 2S22, Rockville, MD 20892, or call on: 301-496-6477. NIH is an Equal Opportunity Employer.

TWO POSTDOCTORAL POSITIONS available in the Artificial Organ/Biomaterial Program at Brown University to study transplantation of encapsulated neuroendocrine cells, nerve regeneration through synthetic guidance channels or tissue-material interactions in biosorbable vascular grafts. Experience with neurobiology techniques, tissue-matrix interactions, or cell biology desired. Stimulating multidisciplinary academic environment within a graduate program with extensive laboratory facilities. Please send curriculum vitae and list of references to: Dr. Patrick Aebischer or Dr. Pierre M. Galletti, Artificial Organ Laboratory, Box G, Providence, RI 02912. Telephone: 401-863-9300. Application materials are available immediately until 19 May 1989. Brown University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE: Position available immediately to join a team investigating bovine immunodeficiency-like virus infection in cattle. Relevant experience in recombinant DNA, immunology, or pathology desirable. This NIH-funded project provides a unique opportunity for research contribution in a recently uncovered animal model of AIDS. Send curriculum vitae and list of references to: James L. Rotter, D.V.M., Ph.D., Department of Veterinary Microbiology, Iowa State University, Ames, IA 50011. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE—MECHANISM OF HV CYTOPATHY. Position available to participate in studies on mechanism of HIV-mediated cytopathicity and mechanisms of viral persistence in AIDS [Stevenson et al., Cell, 53, 483-496 (1988)]. Experience in molecular biology is desirable. Curriculum vitae and three letters of recommendation to: Dr. Mario Stevenson, Ph.D., Pathology and Microbiology, University of Nebraska Medical Center, 42nd and Dewey Avenue, Omaha, NE 68105 by 1 August 1989. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE position available to study RNA Processing in animal cells and viruses. Background either in biochemistry, molecular biology or molecular biology is needed. Experience in recombinant DNA technology desirable. Salary negotiable. Send resume with two names for references to: Dr. Mary Edmonds, Department of Biological Sciences, University of Pittsburgh, Pittsburgh, PA 15260. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE IN IMMUNOLOGY A position is available beginning 1 October 1989 for 2 to 3 years to study murine B lymphocyte differentiation, structure and function of differentiation antigens, or related problems. Salaries negotiable. Send curriculum vitae and list of references to: Dr. Hidetaka Hayashi, Department of Biophysics, Tokyo Metropolitan Institute for Neurosciences, 2-6 Musashidai, Fuchu, Tokyo 183, Japan.

POSTDOCTORAL RESEARCH ASSOCIATES Positions are available for candidates with experience in smooth muscle physiology, biochemistry, and molecular biology to work on eicosanoid regulation of vascular smooth muscles. A position in molecular eicosanoid research would be helpful. Address inquiries to: Dr. C. Y. Rao, Department of ObGyn, 434 MDR Building, University of Louisville, Louisville, KY 40292.

POSTDOCTORAL RESEARCH ASSOCIATES Two-year postdoctoral position available to conduct research on population dynamics and population viability of the endangered red-cockaded woodpecker. The investigator will analyze long-term data from a landscape model of the species' viability, survivorship, and genetic variation to develop population viability assessments involving modeling population persistence in relation to demographic, environmental, and genetic variability. The ideal candidate will have demonstrated research capability in population modeling and the skills and inclination to communicate effectively with faculty and diverse departments as well as conservation managers. Starting salary is $25,852 and applicants must be available to begin on 1 October 1989. Applications are accepted until 1 July 1989. USDA Forest Service is an Equal Opportunity Employer. Women and minorities are encouraged to apply. Send curriculum vitae and the names of three references to: M. R. Lemnitzer, USDA Forest Service, Department of Forestry, Clemson University, Clemson, SC 29634-1003.

POSTDOCTORAL SCIENTIST—MOLECULAR NEUROBIOLOGY The Center for Molecular and Behavioral Neurosciences at Rutgers, The State University of New Jersey, in New Brunswick and Piscataway, is currently recruiting two or more postdoctoral fellows to work under the direction of three Principal Investigators. The position requires an MD/PhD. or PhD/PhD., with a strong background in molecular biology. Salary and benefits competitive. Interested candidates should apply to: Dr. J. C. Schuman, Department of Biochemistry and Molecular Biology, Rutgers University, 1001 Kipps Avenue, Piscataway, NJ 08854. Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE POPULATION ECOLOGY/CONSERVATION BIOLOGY Two-year postdoctoral position available to conduct research on population dynamics and population viability of the endangered red-cockaded woodpecker. The investigator will analyze long-term data from a landscape model of the species' viability, survivorship, and genetic variation to develop population viability assessments involving modeling population persistence in relation to demographic, environmental, and genetic variability. The ideal candidate will have demonstrated research capability in population modeling and the skills and inclination to communicate effectively with faculty and diverse departments as well as conservation managers. Starting salary is $25,852 and applicants must be available to begin on 1 October 1989. Applications are accepted until 1 July 1989. USDA Forest Service is an Equal Opportunity Employer. Women and minorities are encouraged to apply. Send curriculum vitae and the names of three references to: M. R. Lemnitzer, USDA Forest Service, Department of Forestry, Clemson University, Clemson, SC 29634-1003.


RESEARCH ASSOCIATE: Three positions are available in the laboratory of (1) studying protein dislocating and ice-phobic polymers, (2) prepare and characterize advanced protein-based graft polymers and (3) prepare and characterize electrically conducting polymers. Send resume to: Mr. Samir, 4th Floor, 1101 South Goodwin Avenue, Urbana, IL 61801. Telephone: 217- 333-3170. Affirmative Action/Equal Opportunity Employer.

SCIENCE, VOL. 244
Postdoctoral Fellowships in Molecular Biology / Mammalian Development

Positions are available in the Department of Dermatology and Oncology for postdoctoral fellows to study the effects of retinoids on mammalian embryonic development using molecular biological approaches. Experience in one or more of the following areas is desirable: embryology, cell biology, or molecular biology.

The positions will be initially for one year, with extensions foreseen for an additional year.

Interested individuals are invited to send a copy of their c.v., including a list of publications, and letters from three referees to the Personnel Department, quoting reference Science 73/89/WA.

F. Hoffmann-La Roche & Co. Limited Company, CH-4002 Basle
RESEARCH ASSOCIATE with graduate degree or experienced RESEARCH ASSISTANT with B.S. or A.B. and knowledge of cell culture techniques, bloting and other molecular biology procedures, and/or protein chemistry. Ongoing research program involves mecha- nisms and molecular targets of inhibition of hemostatic enzymes: including specific mRNA production by human cells, analysis of certain plasma proteins, using functional and analytical techniques including col- ulation and enzymatic assays, and gel electrophoresis. Salary commensurate with qualifications; immediate opening. Children’s Hospital Research Foundation (CHR), 1111 E. 36th Street, Cleveland, OH 44106. Telephone: 216-637-8822. CHR is an Equal Opportunity Employer.

AUBURN UNIVERSITY

RESEARCH ASSOCIATE POSITION IN ELECTRON MICROSCOPY. A person trained in a biological area will be responsible for routine mainte- nance of a transmission and scanning electron micro- scope and ancillary equipment. The candidate should be broadly trained in electron microscopy, and experienced in tissue preparation and sectioning, EM, freeze-fracture and DNA spreading. The individual will interact with faculty and graduate students. Please submit curric- ulum vitae, transcripts, recent micrographs, and three letters of reference to: Professor Joe H. Cherry, De- partment of Botany and Microbiology, Auburn Uni- versity, AL 36849-5407. The position is available 1 August 1989 and will be taken on 30 June 1989, or until suitable candidate is found. Affirmative Action/Equal Opportunity Employer, applications encouraged from minorities and women.

RESEARCH ASSOCIATE—RECLAMATION


RESEARCH ASSOCIATES AND PHD’s IN MARINE SCIENCES

Several positions on: production and export of phyto- plankton; clonal growth of b) cod (with L. Legender); transport/feeding/culling of (c) scallop larvae with J. D. Dodson) and (d) cod larve (with L. Forster); (e) aquaculture of scallops in open waters (with J. H. Hoeman); (f) development of clonal antibody for identification of scallop larva (with J. D. Dodson); (g) small-scale hydrodynamics of larval scallops (project with Donald Nantgoffe). Research interests associ- ates: Ph.D. preferably with postdoctoral experience (except (g); research engineer). Labar University is French-speaking, but English speaking may be conducted in English. Send curriculum vitae, representative reprints, names, addresses, and telephone numbers of three references, and specify a firm date of availability, to: GIKOQ, Department of Biology, Université Laval, Québec, Québec, Canada, G1K 7P4.

RESEARCH ASSOCIATE— ELECTRON MICROSCOPIST

Immediate opening for a Research Associate-Electron microscopist. Ph.D. in EM, TEM, STEM, or STEM; Freeze frac- ture/etch; IEM in a multi-user research facility. Standard post-experimentation sample processing and data genera- tion protocols. Supervision and training of students (HQ-02, RCA EMU-4A); personnel training. M.S. or B.S. with experience is required. Send résumé to: Dr. J. V. Brown, Atlanta University, Department of Biology, 223 J. P. Brawley Drive, SW., Atlanta, GA 30314. Atlanta University is an Equal Opportunity Employer.

RESEARCH GROUP LEADER IN MOLECULAR BIOLOGY/THEMATOLOGY

Our team is primarily engaged in research on experi- mental antiviral chemotherapy, concentrating on evalua- tion of efficacy and mode of action and cellular kinetics of new antiretroviral drugs. The laboratory supports ongo- ing and future clinical drug evaluation trials (HIV cul- tures, development of PCR) and collaborates with other research groups at the University of Zürich and the Federal Institute of Technology (ETH). The ideal candidate (Ph.D. required) is expected to act as group leader and should have demonstrated experi- ence in the performance of basic re- search projects. Knowledge of the German language is not an essential, but helpful prerequisite. The position is available from July 1989. Please send curriculum vitae, publication list, and three letters of reference to: Ruedi Lüthy, M.D., Chief, Division of Infectious Diseases, Department of Medicine, Uni- versity Hospital, CH-8091 Zürich, Switzerland.

RESEARCH/POSTDOCTORAL ASSOCIATE

Position available to study the regulation of gene expres- sion. Projects include cDNA cloning as well as protein characterization. Ph.D. or equivalent degree required. Send curriculum vitae with salary requirement to: Dr. John Duck Kay, Dobney Eye Institute/University of Southern California/Optomathology, 1355 San Pablo Street, Los Angeles, CA 90033. Equal Opportunity Employer.

SCIENTIST/ASSOCIATE

A full-time research, non tenure-track, position is available for a scientist/associate in a group working in the field of molecular biology and regulation of damaged DNA. Current projects include the cloning and molecular analysis of yeast genes concerned with mutagenesis, a study of the yeast REV 3 DNA polymerase, and experiments with E. coli and yeast using vectors that carry a single, defined, uniquely located mutagenic phototransformer. Candidates should have a Ph.D. degree and postdoctoral experience in molecular biology. Send curriculum vitae and names of three references to: Dr. C. W. Lawrence Department of Biophysics University of Rochester Medical Center Rochester, NY 14642 Telephone: 716-275-2948 The University of Rochester is an Equal Opportunity/ Affirmative Action Employer.

VERTEBRATE BIOLOGIST—ASSISTANT PROFESSOR

A tenure-track position at the assistant professor level is available in the Biology Department at Benedictine College, a small liberal arts college located in Atchison, Kansas. A Ph.D. is required. Teaching duties include: team-teaching a majors and a non-majors freshman biol- ogy course together; and a genetics course per semester in comparative vertebrate anatomy, animal be- havior, or ecology. The successful candidate is also expected to supervise undergraduate research projects in original research projects and to obtain outside research support. Please send curriculum vitae, statement of research and teaching interests and the names of four references no later than 15 May 1989 to: Dr. Daniel E. Bowen, Chair Biology Department Benedictine College Atchison, KS 66002

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