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This summer, we’re introducing QC Tools. QC Tools adds a “no compromise” set of QC statistics and graphs to StatView. With QC Tools, you can do Xbar, R, S, I, MR, CUSUM (with FIR), Capability, p/np, c/u, Pareto analysis, as well as ANOVA, box plots, normality plots, and all the other analyses that come standard with StatView.

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Best of all, you can save your work as templates and apply them to any other data. Like graphical macros, templates record analysis and graph specifications, formatting, text, drawings — everything you do. Templates make it remarkably easy to standardize analysis parameters and generate reports.

FIND OUT MORE

StatView 4.0 has a list price of $595 (U.S.). QC Tools will be available separately July 1. To learn more, call Abacus Concepts at 1-800-666-STAT.

Like graphical macros, StatView’s templates make it easy for anyone — from novices to experts — to perform complex suites of QC analyses and produce high-quality reports.

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POSITIONS OPEN

STOCKTON STATE COLLEGE
ENVIRONMENTAL STUDIES—One year, ASSISTANT PROFESSOR (Ph.D.) or INSTRUCTOR (A.B.D.) with demonstrable depth and expertise in Geographic Information Systems (GIS), ARCGIS, and possibly GRASS) and remote sensing. Applicants will be expected to teach courses in GIS and in their area of additional expertise, as well as continue current articulation agreements with California State agencies. Applicants should have a strong commitment to undergraduate education and develop a research program involving undergraduate students.

PHYSICS—One year, ASSISTANT PROFESSOR (Ph.D.) or INSTRUCTOR (Active A.B.D.) September 1993, Experience in teaching is expected. Typical teaching load of two courses and two lab sections/semester. Eight-person faculty has research interests in astronomy, energy, nuclear physics, surface physics and physics teaching. Opportunities for modest college research funding. Screening commences July 1, 1993; applications considered until the position is filled.

Current salary range is $24,937-34,859. Applicants may be eligible for a $6,000 startup fund. Stockton is a relatively new university with an enrollment of approximately 2,000 students. Stockton University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. R304159

MOLLEcular VIROLOgISTS/SONCOLOGISTS TEnURE-TRACT FACULTy POsITIONS

The Department of Microbiology and Immunology, Louisiana State University Medical Center (LSUMC), invites applications and nominations for tenure-track faculty positions at the levels of ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, and ASSISTANT PROFESSOR. We seek outstanding candidates with postdoctoral experience and demonstrated ability to direct an independent research program in the areas of virology, virology, and/or molecular investigations of HIV, oncogenes, tumor suppressor genes, or cancer. Candidates for senior positions must have a record of discernible published research and in obtaining extramural research funding. Responsibilities include training doctoral and postdoctoral students and teaching in courses for graduate and medical students. Faculty are provided generous seed funds and participation in a research incentive plan. LSUMC and this Department are in a phase of expansion with the construction of a ten-story Biomedical Research Institute. Centers for Cancer and Arthritis Research, and growth of the department's doctoral program. Applicants should send curriculum vitae, a statement of research plans and funding, and three letters of reference to: Dr. Dennis J. O’Callaghan, Professor and Head, Department of Microbiology and Immunology, Louisiana State University Medical Center, 15 Kings Highway, Shreveport, LA 71130-3032. LSUMC is an Equal Opportunity/Equal Opportunity Employer.

The Department of Neurology, University of California, Irvine, has an opening for a Ph.D. in biochemistry at the ASSISTANT ADJUNCT PROFESSOR level. Candidate should have experience in teaching, HPLC, surface chemistry, bioconjugation, radioligands, and primary neuron cell culture systems. Send curriculum vitae and names of three references to: Dr. Stanley van den Noort, Department of Medicine, University of California, Irvine, CA 92715. Refer to Position #93-2. Applications will be considered until the position is filled.

FACULTY POSITION

Applications are invited for a Faculty Position at the RESEARCH ASSISTANT PROFESSOR level, available starting January 1, 1994. The position involves teaching and research. Applicants must have a Ph.D. in recent years with research experience in respiratory epidemiology, biostatistics and computer analysis of large data sets related to respiratory effects of occupational and environmental exposures in various workplaces.

Send curriculum vitae and three references to: Daniel E. Tanker, Chair, Section of Pulmonary and Critical Care Medicine, P.O. Box 9166, West Virginia University School of Medicine, Morgantown, WV 26506-9166, by June 11, 1993.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR
INSTITUTE FOR HUMAN GENE THERAPY
DEPARTMENT OF RESEARCH MEDICINE
University of Pennsylvania Medical Center
Philadelphia, PA 19104-4283

This large academic institution with established teaching and research programs is seeking Ph.D./M.D. or M.D./Ph.D. investigators at the Assistant/Associate Professor level to participate in gene therapy research at the basic and/or clinical level as a part of a new institute devoted to multidisciplinary study of gene therapy. Program will emphasize basic biology of human disease. Compensation and appointments. Send a letter, curriculum vitae, research interests to: James M. Wilson, M.D., Ph.D., Director, Institute for Human Gene Therapy, University of Pennsylvania, 6 Maloney, 3400 Spruce Street, Philadelphia, PA 19104-4283.

An Equal Opportunity/Affirmative Action Employer. We encourage minority and women candidates.

BOTANIST—ASSISTANT PROFESSOR. The Biology/Microbiology Department at South Dakota State University invites applications for a nine-month, tenure-track teaching/research position. Responsibilities will include teaching an introductory botany course, involvement in introductory program and developing advanced course(s) in expertise area. Development of a collaborative research program in area of expertise and publishing with extramural funding support expected. The successful applicant must have a Ph.D. in botanic science or closely related area earned by January 1, 1994. Effective teaching ability or potential, skill in communicating with students, understanding and empathy skills, and evidence of research capability required. Candidates with a broad background in plant biology will be given preference. One or more research and experience in grant writing and generating extramural funding desirable. Specific area of research is flexible. Send letter of application, vita, statement of teaching goals and research interests, documentation of experience related to the position's expectations and three letters of reference to: Dr. Chuck McMullen, Head, Department of Biology/Microbiology, South Dakota State University, Box 2207B, Brookings, SD 57007. Telephone: 605-688-6141. Review of applications begins July 6, 1993, and the position will remain open until filled. Starting date is negotiable. Affirmative Action/Equal Opportunity Employer/Americans with Disabilities Act, reasonable accommodations 605-688-4128 (TTY/Voice 605-688-4394)

EvoluTioNary BIOLOGIST

Princeton University invites applications for a tenure-track position in the Department of Ecology and Evolutionary Biology. We are particularly interested in candidates at the level of ASSISTANT PROFESSOR, but a more senior appointment is possible for truly exceptional candidates. We seek particularly innovative applications from individuals using modern approaches to study evolutionary mechanisms, either phylogenetic processes of diversification or the genetic basis of microevolution. Applicants should have a strong commitment to teaching and a well-developed conceptual basis to their research. A statement of research interests, reprints of three publications and three letters of recommendation should be sent to: Dr. Peter R. Grant, Department of Ecology & Evolutionary Biology, Guyot Hall, Princeton University, Princeton, NJ 08544. The closing date for applications is September 4, 1993. Princeton University is an Affirmative Action/Equal Opportunity Employer.

BioloGical Oceanographer

We seek a Ph.D. marine microbial ecologist for a 9-month, tenure-track position at the ASSISTANT PROFESSOR level to begin in August 1994. The position involves teaching, research, and graduate student mentoring. Applicants should have a Ph.D. in recent years in marine microbial ecology and experience in respiratory microbiology, biostatistics and computer analysis of large data sets related to respiratory effects of occupational and environmental exposures in various workplaces.

Send curriculum vitae and three references to: Daniel E. Tanker, Chair, Section of Pulmonary and Critical Care Medicine, P.O. Box 9166, West Virginia University School of Medicine, Morgantown, WV 26506-9166, by June 11, 1993.
Postdoctoral Opportunities in The Biomedical Sciences.

Listed below are a few of the outstanding opportunities for conducting research that are now available at the National Institutes of Health.

**Cancer Epidemiology**
Joseph F. Fraumeni, Jr., MD
Opportunities for research in epidemiology include studying the role of occupation, radiation, diet/nutrition, genetics, infectious agents, lifestyle factors, medications, and environmental pollution in the development of cancer. Emphasis is placed on interdisciplinary studies that combine epidemiologic and experimental approaches. Fellowships in biostatistics and methods development are also available. Applications are accepted on a continuing basis from candidates with a variety of academic, clinical, and research backgrounds. Epidemiology and Biostatistics Program (OE-34), NCI, EPN, Room 543.

**Cellular Biology of Alzheimer's Disease**
Benjamin Wolozin, MD, PhD
The biochemical pathways contributing to Alzheimer's disease are being investigated using cell lines of human olfactory neuroblasts obtained from Alzheimer's patients and control donors. Immunochemical and molecular techniques are then employed to investigate the biology of amyloid precursor protein and its interaction with G proteins, tau protein, and second messenger systems. Applicants must have less than five years postdoctoral experience. Laboratory of Clinical Science (OE-34), NIMH, Building 10, Room 3D41.

**Clinical Neurochemistry and Aminergic Mechanisms**
David S. Goldstein, MD, PhD
Central and peripheral mechanisms of stress and neurologic disorders are being studied in humans and laboratory animals in order to better understand neural cardiovascular regulation. Procedures utilized include HPLC assays for the detection of biogenic amines and their metabolites, PET scanning, tracer catecholamine kinetics, direct sympathetic nerve recording, and in vivo microdialysis. Clinical Neuroscience Branch (OE-34), NINDS, Building 10, Room 5N262.

**Control of DNA Replication**
Dhruba K. Chatteraj, PhD
Mechanisms that regulate initiation of DNA replication are being studied using plasmids of E. coli both in vivo and in vitro. Current projects in the laboratory include quantitative analysis of DNA-protein interactions, protein structure-function relations, and mechanisms of chaperone mediated protein folding. Candidates should have a background in molecular genetics, and preferably protein purification, and less than three years postdoctoral experience. Laboratory of Biochemistry (OE-34), NCI, Building 37, Room 4D18.

**Eucaryotic Cell Morphogenesis**
Enrico Cabib, PhD
Yeasts cell walls and septa are used as models for morphogenesis in eucaryotes. Experimental approaches range from enzymology and molecular biology to ultrastructural studies. Topics under study include mechanisms of activation of chitin synthetase zymogens and the function of GTP-binding proteins in glucan synthesis regulation.

**Experience in yeast genetics and molecular biology is required. Laboratory of Biochemistry and Metabolism (OE-34), NIDDK, Building 10, Room 9N115.**

**Molecular Biology of Retrovirus Replication**
Judith G. Levin, PhD
Replication of HIV and other mammalian retroviruses is being investigated using genetic, biochemical, and molecular biological techniques. Current work is focused on two areas of interest: structure-function studies of reverse transcriptase and the molecular mechanisms involved in translational control of retroviral pol gene expression. Applicants should have a background in molecular biology and biochemistry. Laboratory of Molecular Genetics (OE-34), NICHD, Building 6B, Room 216.

**Neurocytobiology**
Maria Spatz, MD
Cell cultures derived from cerebrovascular and glia are established to conduct studies on receptors and receptor-mediated signal transduction involved in ischemic injury. At least two years experience in clinical and basic studies of central ischemia and trauma, and in the establishment of long-term brain cultures, is required. This position may lead to a tenure-track appointment. Stroke Branch (OE-34), NINSD, Building 36, Room 4D04.

**Additional Postdoctoral Fellowship Opportunities**
For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference by Internet (cu.nih.gov) or via modem (1,301-402-2221 or 1,800-358-2221). The settings for modem access are "7,Even,1". When connected to NIH, type in "vt100" at the connect message, "F5E" at initial, and "AFL" at account.

The Postdoctoral Research Fellowship Opportunities catalog may be requested from the address below. An electronic version of the catalog may be accessed via the network-based (Internet) Gopher Information System. To access the NIH Gopher server, Gopher client software (available via anonymous ftp "boombox.micro.umn.edu") must be running on your computer and configured to point to "gopher.nih.gov", port 70. Select NIH Information to reveal the NIH Office of Education directory. Those interested in receiving information on other postdoctoral opportunities, clinical training opportunities, or accessing Gopher may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

**To Apply**
If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (e.g., MD, DO, DDS, or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, curriculum vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.

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ASSISTANT PROFESSOR OF BIOCHEMISTRY. Tenure-track position in the Department of Chemistry, available January 1, 1994. Duties include teaching graduate and undergraduate courses and establishment of an externally funded research program. Research interests in plant or environmental biochemistry, or biochemistry of diseases. Applicants should have a Ph.D. in biochemistry or a closely related field, with strong background in chemistry required. Submit a resume, research plans, and three letters of recommendation by July 15, 1993, to: Dr. Gregory Boyer, Faculty of Chemistry, State University of New York—College of Environmental Science and Forestry, Syracuse, NY 13210. SUNY-CESF is an Equal Opportunity/Affirmative Action Employer. Women and Minorities are especially encouraged to apply.

FACTORY POSITIONS IN THE RADIATION SCIENCES

The Medical Research Council of Canada Group in the Radiation Sciences, Université de Sherbrooke, seeks applicants for a position as ASSISTANT OR ASSOCIATE PROFESSOR level, depending upon qualifications. Applicants should have a Ph.D. in Physics, Radiobiology, or Radiology and must have expertise in either tumor biology or radiobiology. The position is tenured, but applicants should be able to develop an externally funded research program. Associate professor candidates must have independent grant support. Submit a curriculum vitae, description of research interest and arrange for three letters of recommendation to: Dr. John van Liere, Ph.D., Chairman, Department of Nuclear Medicine and Radiobiology, Faculty of Medicine, Université de Sherbrooke, Sherbrooke, Québec, Canada J1H 5N4.

HUMAN BEHAVIORAL PHARMACOLOGIST

Applications are invited for a tenure-track position in the Department of Psychiatry and Human Behavior at the University of Mississippi Medical Center. The position is associated with the ASSOCIATE PROFESSOR level, depending upon qualifications. The successful candidate will be expected to develop an externally funded research program in human drug abuse, to establish collaborative relationships within the department, and to advise students pleased with drug abuse. The successful candidate will be paid $40,000 and have a sabbatical each year. Submit a curriculum vitae, statement of current and future research goals and three letters of reference to: Dr. James R. Lindsey, Chairman, Department of Psychiatry and Human Behavior, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216. Applications will be accepted until August 31, 1993. Equal Opportunity Employer, M/F/D/V.

ASSISTANT OR ASSOCIATE PROFESSOR

Applications are invited for a tenure-track faculty position in the Department of Microbiology and Immunology at Loyola University Chicago, Stritch School of Medicine. We are seeking a talented teacher/researcher to join our expanding and highly interactive faculty. The applicant will coordinate the microbiology and immunology course for medical students and develop an independent, externally funded research program. Excellent new facilities and attractive start-up funds are available. Submit a curriculum vitae, statement of teaching/research experience, and three letters of recommendation to: Dr. Katherine L. Knight, Chairperson, Department of Microbiology and Immunology, Loyola University Chicago, Stritch School of Medicine, 2160 South First Avenue, Maywood, IL 60153. Loyola University Chicago is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSISTANT PROFESSOR

POSITIONS OPEN

Assistant Professor position to conduct research in potassium channel structure and function and teach graduate students. Requirements: Ph.D. in cell biology (with formal courses in molecular biology), four years of postdoctoral training in ion channel regulation and biophysics, three years of teaching and research experience in molecular biological techniques such as site-directed mutagenesis, DNA sequencing, cDNA library construction and expression, and experience with two-electrode voltage clamp, patch clamp and single channel analysis. At least five research publications in peer reviewed journals in required areas of research, with at least two as first author. Two strong recommendations (from first author). Responsible for setting up and running a research lab. Salary depending on experience. Position starts January 1, 1993. Submit a resume, research plan, three letters of recommendation to: Dr. Bryan E. Greaves, University of Pennsylvania Medical School, Philadelphia, PA 19104.

ASSOCIATE OR FULL PROFESSOR, GENETIC/MOLECULAR MECHANISMS OF DISEASE

The Department of Comparative Medicine, Schools of Medicine and Dentistry, University of Alabama at Birmingham (UAB), invites applications for a tenure-track position at the rank of Associate or Full Professor. We seek an independent investigator of genetic and molecular mechanisms of disease, with an established working knowledge of animal models of human diseases. Researchers using novel approaches to understanding disease mechanisms in new embryonic stem cell systems (e.g., rat or rabbit), gift-proof gene knockout or other innovations in animal modeling are encouraged to apply. Teaching responsibilities include instruction in the graduate level and the Department of Comparative Medicine and the Pathology Graduate Program in Molecular and Cellular Pathology. Candidates must have a Ph.D. or M.D. and an NIH-funded training program. UAB is the University's Medical Center for comparison. Further information is available upon request. Applications will be evaluated as they are received with the final deadline set at August 1, 1993. Northwestern University is an Affirmative Action/Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States.

COORDINATOR OF MICROVASCULAR RESEARCH

Research Faculty Position, Department of Emergency Medicine, Louisiana State University Medical Center in Shreveport. Activities include independent research; collaboration with other investigators; supervision of students and Emergency Medicine resident projects; consultation on statistical analysis, research design, methodology, grant writing, and research teaching. Contact: Dr. Charles H. Peterson, Assistant Professor, University Medical Center; P.O. Box 33932, Shreveport, LA 71130-3932. LSU-MC is an Equal Opportunity Employer.

ANATOMY FACULTY

The American University of the Caribbean, School of Medicine in Monterrey, West Indies, seeks Anatomy Faculty. Send resume to: P.O. Box 400, Montserrat, West Indies. FAX: (809) 491-2913.

HEAD, IMMUNOLOGY DEPARTMENT

HOLLAND LABORATORY AMERICAN ACADEMY OF BIOMEDICAL SERVICES

The Holland Laboratory is expanding its research program with the establishment of a Department of Immunology that will carry out basic research in fields of immunology and pathology. We are interested in recruiting outstanding individuals with training and experience in translational and transplantation. Nominations and applications are sought for the position of Department Head. The individual will be expected to develop an outstanding research program and to interact productively with other basic and applied groups at the Holland Laboratory. Resources are available to ensure that a distinguished department can be established.

Candidates must have a record of strong research productivity in cellular immunology, mechanisms of immune tolerance, autoimmunity, and other topics consistent with a program in transplantation biology. Individuals must have leadership skills and evidence of national or international recognition.

Please send nominations, inquiries and applications including complete curriculum vitae, to: Leon W. Hoyer, M.D., Holland Laboratory, 15601 Crabbs Branch Way, Rockville, MD 20855.

The Centers for Biologics and Drug Evaluation and Research are searching for outstanding Physicians and Scientists interested in a challenge by participating in the development and approval process for new biological and drug products. Physicians and scientists serve on multidisciplinary scientific teams of highly skilled professionals. Duties may include reviewing and evaluating Investigational New Drug applications and biological product license or new drug applications; reviewing proposed labeling; evaluating adequacy of the methods, facilities and controls used for manufacture of biologics and/or drugs, and summarizing findings and making recommendations for approval or non-approval of applications. Some positions offer the unique opportunity to conduct biomedical research in combination with review responsibilities. These positions have a high degree of independence and involve complex medical, scientific, and regulatory issues. Opportunities for professional development may include further training, attendance at scientific meetings and conferences, and clinical activities.

Qualifications: Physicians must have completed all requirements for a Doctor of Medicine or Osteopathy Degree from an accredited institution. Graduates of foreign medical schools must submit a copy of their permanent Educational Commission for Foreign Medical Graduates (ECFMG) certification. Physicians should be board eligible or certified in a primary specialty or have completed at least four years residency training or possess equivalent experience. A background combining research experience with clinical medicine is preferred along with specialty training and expertise in one or more of the following areas: oncology, infectious diseases, hematology, rheumatology, epidemiology, pediatrics, pulmonary diseases, allergy, immunology, parasitic diseases, pathology, pediatric pulmonology, gastroenterology, or related disciplines. For scientists, doctoral level degrees in biological or physical sciences, pharmacology, toxicology, or related disciplines, along with advanced training and/or experience in the development, manufacturer or testing of biologics, drugs and/or antibiotics is desirable.

For all candidates, experience in the pharmaceutical industry along with computer applications would be desirable. In addition, candidates should have highly developed analytical, written and oral skills, as well as the ability to research problems and issues and to use mature judgment in problem solving.

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Location: Offices and laboratories are strategically located on the campus of the National Institutes of Health in Bethesda, Maryland, or in several locations throughout the Rockville, Maryland, area.

Salary: For physicians, Civil Service salary range for GS-13 through GS-15 is $59,099 to $91,029. In addition, some positions may include a Physicians' Comparability Allowance. For scientists (other than M.D.), Civil Service salary range for GS-11 through GS-15 is $33,623 to $86,589. Salary, benefits, research support, and level of responsibility are commensurate with education and experience. Also, positions may be filled by appointment in the U.S. Public Health Service, Commissioned Corps, or in the Fellowship Program, with commensurate salary and benefits.

How To Apply: Interested candidates should send an Application for Federal Employment (SF-171) and/or current detailed Curriculum Vitae along with bibliography, statement of regulatory/research interest, transcripts, and names of three references to:

FDA/Center for Biologics Evaluation & Research
Attention: Ms. Blumenthal (71)
Suite 200N - HFM-125
1401 Rockville Pike
Rockville, Maryland 20852-1448

FDA/Center for Drug Evaluation and Research
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Dr. Daniel R. Weinberger
Clinical Brain Disorders Branch
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WAW Building, Room 500
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DEPARTMENT OF MICROBIOLOGY,
UNIVERSITY OF MASSACHUSETTS, AMHERST
FACULTY POSITIONS

The Department of Microbiology at the University of Massachusetts, Amherst has three faculty openings. We are seeking individuals with a strong research background that will complement established research and teaching programs in our department. One of the three positions is open at the level of Assistant Professor, Associate Professor, or Assistant Professor (tenure track) level. We plan to fill two of the positions at the Assistant Professor level, and the other at a senior level. Candidates must have a Ph.D. degree with postdoctoral research experience preferred. Each appointee will be expected to develop an independent, extramurally-funded research program. A commitment to high-quality teaching is essential. Salary is commensurate with qualifications and experience.

Positions are available in the following areas:

Prokaryotic diversity. We are seeking an investigator interested in the metabolic diversity of prokaryotes, with demonstrated experience in combining the techniques of biochemistry and genetics for the study of biological processes that occur in prokaryotic cells.

Microbial genetics. We are particularly interested in applicants studying contemporary genetics problems such as the evolution of genomes, regulation of gene expression, or plant-bacterium interactions, in novel microorganisms.

Host-parasite interactions. We are seeking a candidate whose research encompasses biochemical aspects of microbial pathogenesis, particularly in mammals.

Our department has a long-standing tradition of excellence in the physiology, genetics, and ecology of diverse microorganisms, as well as in immunology and virology. Extramurally-funded research groups are active in all the above-mentioned areas. The department maintains vigorous undergraduate and graduate programs in Microbiology, and faculty members are associated with interdepartmental graduate programs in Molecular and Cellular Biology, Neuroscience and Behavior, and Organismic and Evolutionary Biology.

Mail applications including curriculum vitae, description of current research, statement of future research plans, and names and addresses of three references to: Chair, Faculty Search Committee, Department of Microbiology, University of Massachusetts, Amherst MA 01003. Deadline for applications is Sept. 30, 1993, or until suitable candidates are identified.

An Equal Opportunity/Affirmative Action Employer.

Join Our Family.

One of Connecticut's leading health care systems, combining the resources and caring values of Saint Francis Hospital & Medical Center, Mount Sinai Hospital, and BlueRidge Center, is seeking candidates for the position of

RESEARCH SCIENTIST
Bone Biology
Saint Francis Campus

Candidates will join our NIH-supported Bone Biology Laboratory, to work on molecular and cellular biology of the bone. Completion of a doctoral degree and a postdoctoral fellowship is required, with prior molecular and cellular biology experience. Candidates will be eligible for an appointment at the University of Connecticut School of Medicine.

Interested candidates should send a resume and references to: Dr. Ernesto Canalis, Director, Department of Research, Saint Francis Hospital and Medical Center, 114 Woodland Street, Hartford, CT 06105-1299

See what excitement lies ahead.

Our work in thrombosis and inflammation has the potential to dramatically improve both treatment and prevention of related cardiovascular diseases. This promises to be an exciting year at Corvas International as we move our family of product candidates toward commercialization. We seek highly motivated individuals with expertise in the following disciplines:

- Peptide Chemistry • Protein Chemistry
- Analytical Chemistry • Medicinal Chemistry
- Molecular Biology/Biochemistry
- Scaleup and Process Development
- Pharmacology-Drug Metabolism and Disposition (ADME)

Our beautiful Torrey Pines location places us in the midst of academic and institutional research excellence, as well as the area's expanding biotech industry. We offer competitive compensation packages and more importantly, a highly interactive and stimulating scientific environment. For consideration, please send a CV and a letter of interest to: Corvas International, Inc., Human Resources, 3030 Science Park Road, San Diego, CA 92121. Equal Opportunity Employer.
Mitotix, Inc., a well-funded new biopharmaceutical company, is developing cell-cycle based therapeutics for cancer and infectious diseases.

We are looking for creative, highly motivated and enthusiastic Post-Doctoral Scientists with a strong record of achievement in either the academic or industrial environment.

Cell geneticists, with experience in expression cloning, cDNA library construction, genetic manipulation of yeast or mammalian cells.

Protein biochemists, with experience in protein purification and characterization and/or peptide chemistry.

Structural biologists, with experience in macromolecular computer modeling and/or protein structure determination by physicochemical methods.

Two-year Fellowships will be awarded, with the possibility of a third year, based on performance. We offer competitive salaries and benefits, a wonderful location in the heart of Cambridge’s scientific community, and the chance to work with leading science and business professionals. We are strongly committed to research and encourage participation in scientific meetings and publication of scientific results.

Send a curriculum vitae and the names and addresses of three references to: Giulio Draetta, Vice President for Biological Research, Mitotix, Inc., One Kendall Square, Building 600, Cambridge, MA 02139, USA. An Equal Opportunity Employer.
THE 1993 ALBANY CONFERENCE ENTITLED "MOLECULAR MECHANISMS OF DRUG RESISTANCE" will bring together an international grouping of experimental scientists to present their work on the strategies by which microbial and neoplastic cells evade the actions of drugs. A strongly interdisciplinary program is planned, organized into five sessions based on the molecular mechanisms involved. In each session, results derived from work on a variety of organisms will be presented and efforts will be made to generalize from this interdisciplinary base. Resistance mechanisms to be considered will include drug inactivation, target modification, permeability, and transport; where the underlying molecular genetic principles are understood, they are to be discussed as well. Systems to be evaluated are bacteria, parasites, viruses and neoplasms. In addition, a workshop devoted to Mycobacterium tuberculosis will explore current efforts to understand the genetic and mechanistic bases of multidrug resistance in this organism.

The scheduled speakers are - **Keynote:** Julian Davies

**Permeability and Membranes:** Nicola Carter, Doris Cully, Ronald Kaback, Hiroshi Nikaido, Tom Tritton; **Drug Efflux:** Michael Gottesman, Stuart Levy, Sarah Volkman; **Target Modification/Amplification:** Stephen Beverley, Alex Tomasz; **Drug Resistance in TB:** Julia Inamine, William Jacobs, Douglas Smith, Douglas Young; **Drug Inactivation:** Eric Cundiff, James Knox, Kenneth Tew; **Novel Drug Design/Overcoming Resistance:** Robert Jackson, Fred Oppendoes

THE CONFERENCE will begin with an opening session on Thursday evening, September 9, and continue until noon on Sunday, September 12.

CONFERENCE FEE: $475 includes registration, accommodations (double occupancy) and meals between the conference center and Albany Airport.

FOR FURTHER INFORMATION call conference coordinator Carole Keith at 518-442-4327; Fax: 518-442-4767; E-mail: carole@uacsc2.albany.edu - Or write: 1993 Albany Conference, PO Box 8836, Albany, NY 12208-0836 USA.

SPONSORING INSTITUTIONS: Wadsworth Center for Laboratories and Research, New York State Department of Health; The University at Albany, SUNY; Albany Medical College; Nucleic Acid Technologies Foundation.

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**AMGEN**

Our entrepreneurial environment naturally evolves as a function of our mission: the development of recombinant DNA-based human therapeutics, utilizing the principles of cellular and molecular biology...through rapid product development and innovative commercialization strategies. We currently have a position in our Neurobiology Department for the following professional:

**Research Associate**

Candidate must have a BA/BS or MS degree in Biology or a related field, with 3+ years of relevant experience. Your responsibilities will include stereotactic small animal surgery, radioligand binding and autoradiography, as well as neurochemical, enzyme and signal transduction studies.

At Amgen, our employees work in an environment that provides the freedom to manage their projects, regulate the quality of work and make decisions within company goals. And we back this freedom with a compensation and benefits package that reflects the level of our commitment. Interested candidates should submit their resume, for confidential consideration, to: Amgen Inc., Staffing, Job Code OA-SC-JC-009, Amgen Center, Thousand Oaks, CA 91320-1789.

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**CELL BIOLOGY ASSAY DEVELOPMENT**

ONYX Pharmaceuticals is a young and vibrant company devoted to the discovery and development of cancer therapeutics through research into molecular oncology mechanisms. We are seeking a highly motivated scientist, interested in a very stimulating and challenging environment, to join our Drug Discovery group.

The successful candidate will have completed a postdoctoral fellowship with at least three years of subsequent experience in assay development at a pharmaceutical company. This person will propose and develop novel screens as well as evaluate active compounds. Broad experience with a variety of assays for small molecule inhibitors, including cell-based, receptor and enzyme-linked approaches is desirable.

ONYX is located in pleasant surroundings, north of Berkeley, California. A highly interactive atmosphere prevails, where publications and open discussions are encouraged. The current scientific team is a very motivated group with a strong interest in creating a world-class pharmaceutical company. If you are interested in joining us, please send your resume and a list of references to: ONYX Pharmaceuticals, Department D, 3031 Research Drive, Richmond, CA 94806. EOE.

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**ONYX PHARMACEUTICALS**

We are an Equal Opportunity Employer M/F/D/V.
Controllable Gene Therapies

Medicines for the Next Millennium

GENEMEDICINE, INC. is a new company focused on the development of controllable in vitro gene therapies. We are seeking a select group of bright and highly motivated individuals to pioneer our scientific and clinical programs.

STAFF SCIENTISTS

We wish to appoint experimental scientists to lead groups responsible for the design and implementation of our scientific activities. These positions have significant growth potential and are available in the following areas:

MOLECULAR & CELL BIOLOGY
You will be responsible for the design and development of DNA vectors that have tissue-specific function and provide for controlled activation of in vitro gene expression. Applicants must have a Ph.D. plus 2 to 5 years experience.

VECTOR PRODUCTION & PROCESS DEVELOPMENT
You will be responsible for the design, development and scale-up of DNA vector production and purification to GLP and GMP standards. Applicants will have a Ph.D. or a M.S. and substantial industrial biotechnology experience.

PHARMACOLOGY/PHARMACOKINETICS
Your responsibilities will be the design, development and analysis of studies to determine the behavior of DNA vectors in normal and diseased animal models. Applicants must have a Ph.D. or D.V.M. plus 5 years experience in pharmacology, pharmacokinetics or pathophysiology.

FORMULATION SCIENCE
You will be responsible for optimizing the formulation of DNA vectors. Applicants will have a Ph.D. and at least 2 years experience in the formulation of colloidal systems.

PHYSICAL AND BIOPHYSICAL ANALYSIS
Your role will be to assess the physical and biophysical characteristics of DNA vectors. You will have a Ph.D. and at least 2 years relevant experience in determining the colloidal properties of macromolecules and particulate systems.

STAFF ASSOCIATES

We wish to make a number of technical appointments in each of the areas given above. We seek individuals with demonstrated technical skills, strong work ethic, excellent academic training and a desire to learn and to grow. Candidates will have a B.S. or a M.S. plus at least 2 years experience.

GENEMEDICINE is backed by several of the most successful venture capital investors in biotechnology, has strong ties to the laboratories of its scientific founders at Baylor College of Medicine and is located close to the Texas Medical Center—the world’s largest medical research facility. We offer a highly competitive compensation package including stock options. For confidential consideration, please send your CV and a letter outlining the applicability of your background for the position of interest to:

GENEMEDICINE, INC., Human Resources Director, 8080 North Stadium Drive, Suite 2100, Houston, TX 77054-1823

An Equal Opportunity Employer

GENEMEDICINE, INC.
POSTDOCTORAL POSITION—HARVARD MEDICAL SCHOOL. Fully funded positions are currently available in two project areas: the basic virology and pathogenesis of HIV-1/AIDS, and the development of novel antiretroviral drugs targeting HIV integration and reverse transcriptase to gene therapy. Current work encompasses a multidisciplinary approach taking advantage of ready access to extensive clinical expertise. \(\text{POSTDOCTORAL} \) positions available for the study of protein-DNA interactions, using biophysical, biochemical and molecular biological approaches. Current projects include studies of DNA unwinding by helicases and helix destabilizing proteins. Send curriculum vitae and the names of three references to: Dr. Timothy M. Lohman Biochemistry & Molecular Biophysics Washington University School of Medicine Box 8231 660 South Euclid Avenue St. Louis, MO 63110

POSTDOCTORAL POSITION is available immediately to study coronarial rhinitis in a rat model. Research emphasizes nasal and pulmonary biology are required responses in the development and clearance of rhinitis and in the prevention of re-infection. Applicant must hold a Ph.D., D.V.M., M.D. or equivalent degree and have demonstrated expertise in rodent immunology. The position will be supported by a fellowship from Miles Inc. for an initial appointment of 2 years at a stipend commensurate with education and experience. Applicants should send current curriculum vitae and the names of three references to: Dr. Susan Compton, Section of Comparative Medicine, Yale University School of Medicine, P.O. Box 3333, 333 Cedar Street, New Haven, CT 06510. Yale University and Miles Inc. are Affirmative Action/Equal Opportunity Employers.

EXTRACELLULAR MATRIX BIOLOGY POSTDOCTORAL POSITION To investigate macromolecular and cell-matrix interactions in the development of extracellular matrices; or changes in gene expression of the matrix assembly. Experience in cell, developmental and/or molecular biology required. Send a letter summarizing background and interests, curriculum vitae and the names of three references to: David E. Birk, Ph.D., Department of Anatomy and Cellular Biology, Tufts University School of Medicine, 130 Harrison Avenue, Boston, MA 02111.

POSTDOCTORAL POSITION available for studies of sphingolipid function in yeast, including roles in proton transport, osmotic stress and heat tolerance. Experience in membrane biochemistry or molecular biology desirable. Send curriculum vitae and the names of three references to: Dr. Robert Dickson or Dr. Robert Lester, Department of Biochemistry, University of Kentucky Medical Center, Lexington, KY 40536-0084. An Equal Opportunity/Affirmative Action Employer.

UCLA SCHOOL OF MEDICINE DEPARTMENT OF PHARMACOLOGY POSTDOCTORAL SCHOLAR Postdoctoral Scholar position is available to study the regulation of metabolism in acute and chronic animal models of myocardial ischemia and reperfusion using biochemical and molecular techniques. Applicants should have a Ph.D. or equivalent in Biochemistry or related field. Please send applications with curriculum vitae and names of 2 referees to: Dr. Dennis Butten, Department of Pharmacology, UCLy School of Medicine, Room B2-086 CHS, Los Angeles, CA 90024-1721. Equal Opportunity/Affirmative Action Employer.

BIOTECHNOLOGY
DIRECTOR OF RESEARCH

Ph.D. with demonstrated national recognition for research achievement in biochemistry, molecular biology, or cell biology. Desired areas of expertise include growth factors, receptors, signal transduction, and cell interactions. The ideal candidate will have a strong track record of scientific accomplishment. Excellent communication and interpersonal skills are essential.

Individual will be responsible for building and directing first-class research program. Duties will include leadership and active participation in research activities. Duties will also include the development of external collaborations to augment in-house research efforts. Our goals are to develop products for bone and cartilage repair. We are evaluating an osteogenic protein product in clinical trials.

Stryker Biotech is a division of Stryker Corporation, a company which develops, manufactures, and markets products for the medical and orthopaedic community. Please send your curriculum vitae and references in confidence to Human Resources #100, Stryker Biotech, P.O. Box 8356, Natick, MA 01760-0053.

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Research Scientist
Animal Health Product Development

Pfizer, a multinational, research-based leader in healthcare products, has a challenging opening on the staff of its Animal Health Products R&D group, Central Research Division.

Based at our Terre Haute, Indiana research facility, you will be involved in the development of new animal health/veterinary pharmaceuticals. This will involve preparation of clinical research plans and protocols to ensure that potential products meet efficacy and safety requirements for regulatory submission. As a primary investigator, you will be responsible for the conduct of clinical trial programs, primarily involving collaboration with outside investigators and also some on-station research.

This important assignment requires a Ph.D. or a DVM plus an MS with a major in a relevant discipline or the equivalent. You should have some knowledge of the animal health industry and, preferably, some industrial research experience. Good written and verbal communications skills are essential.

We can provide all the professional and personal satisfactions of a Fortune 100 company, including a competitive salary, excellent benefits, relocation assistance and growth potential. For confidential consideration, please send your resume and salary history to: Ms. Christina Bajer, Pfizer Inc., Box 88, Terre Haute, IN 47808. We are an equal opportunity employer.

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Challenging Post-Doctoral Career Opportunities In
MOLECULAR BIOLOGY AND BIOCHEMISTRY

We are a well-funded, independent biomedical research institute located on the North Shore University Hospital campus on Long Island, convenient to New York City and Cold Spring Harbor Labs. We’re looking for capable, creative professionals to work alongside noted investigators and become involved with well-established and new research projects:

- **AIDS PATHOGENESIS** — Headed by Dr. Eric Verdin, this group will focus on the mechanism of HIV-1 gene regulation with a special emphasis on the role of chromatin. Experience in molecular biology/protein biochemistry and/or immunology would be preferred.

- **HIV-MOLECULAR VIROLOGY** — Working with Dr. Michael Bukrinsky, you’ll address the molecular mechanisms of HIV infection of macrophages. Expertise in molecular biology is required.

- **GENE REGULATION** — As a member of the group headed by Dr. Richard Currie, your studies will involve the post-transcriptional and translational mechanisms of TNF mRNA metabolism in relation to glucocorticoid hormone action and therapeutic control of TNF expression. Expertise in protein biochemistry and molecular biology is desired.

We can offer you an excellent salary and benefits program, commensurate with experience. For confidential consideration, please forward your “c.v.” with salary requirement and indication of position of interest to: Human Resources Department-AHG, The Picower Institute, 350 Community Drive, Manhasset, New York 11030. We are an equal opportunity/affirmative action employer.

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The Picower Institute for Medical Research

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Announcement and call for abstracts for:

**Conference on Advances in AIDS Vaccine Development - 1993**

*Sixth NCVDG Meeting*

October 30 - November 4, 1993

Radisson Plaza Hotel
Alexandria, Virginia, USA

**ORGANIZED BY:**
Division of AIDS,
National Institute of Allergy
and Infectious Diseases, NIH

To receive conference registration and abstract submission information, please call or write to:

Debra Steward
Technical Resources, Inc.
3202 Tower Oaks Blvd.
Rockville, MD 20852
301/770-3133
FAX 301/468-9245

Deadline for abstract submission is August 1, 1993
**LEUKON**

Leukon, a recently established biotechnology company, is recruiting scientists at all levels to develop a research program focusing on the role of chemoattractants and adhesion molecules in the tissue and leukocyte subset selective recruitment of cells in inflammation. We are looking for team-oriented investigators who have demonstrated excellence and are committed to the development of novel therapeutics for acute and chronic inflammation.

We seek scientists with expertise in cell biology, molecular biology, biochemistry, immunology, and animal models of inflammation. Projects are available in the following areas: lymphocyte and granulocyte chemotaxis and interaction with endothelial cells, organ-specific lymphocyte homing, receptor-ligand interactions, identification of novel molecules on microvascular endothelium and lymphocyte subsets, expression and structure-function studies of cloned genes, and development of appropriate inflammatory disease models to evaluate lead compounds. In addition, individuals with demonstrated expertise in hybridoma work and immunohistochemistry are encouraged to apply.

We have solid venture capital funding, an outstanding scientific advisory board chaired by Dr. Timothy Springer and are located in close proximity to Harvard Medical School. Leukon offers competitive salaries, excellent health benefits, a generous relocation package and an incentive stock option plan. This is your opportunity to get in at the ground floor and have a major impact on the future of our product development. For confidential consideration, please submit a resume to: Dr. Walter Newman, Director of Research, 800 Huntington Avenue, Boston, MA 02115. We are an equal opportunity employer.

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**CHAIR, DEPARTMENT OF IMMUNOLOGY AND INFECTIOUS DISEASES**
**THE JOHNS HOPKINS UNIVERSITY SCHOOL OF HYGIENE AND PUBLIC HEALTH**

Nominations and applications are invited for the position of Chair, Department of Immunology and Infectious Diseases at the Johns Hopkins University School of Hygiene and Public Health. The mission of the Department is to advance the understanding of basic biological mechanisms involved in infectious diseases of public health importance and to apply this knowledge to the control of those diseases. Education of masters, doctoral and post-doctoral students is also at the core of the departmental mission.

The Department has ongoing research projects in the areas of host-parasite relationships, genetics, immune responses, and molecular biology. This is a dynamic department with ongoing international collaborations and strong relationships with other departments within the University. It carries out its educational and research agendas in an institutional setting that has enormous strengths in infectious diseases encompassing molecular, quantitative, clinical and policy expertise. It has an established program in AIDS research and actively participates in the multidisciplinary University-wide Center for AIDS Research. The department has approximately 50 students at the pre-doctoral level.

Candidates for this position should have strong academic and research accomplishments; proven administrative abilities; and an interest in working collaboratively with colleagues in the largest school of public health in the world (350 full-time faculty and $100+ million research budget) and an outstanding, adjacent Hospital and School of Medicine. A broad view of infectious diseases and the ability to provide vibrant leadership are required. This person will be expected to lead the department in new directions in critical and newly-emerging diseases. High priority areas for future development may include, but are not limited to, prevention of AIDS, other Sexually Transmitted Diseases, Tuberculosis, and parasitic infections.

Nominations, applications and inquiries should be received by July 15, 1993 at the address below. Minorities and women are encouraged to apply. The Johns Hopkins University is an Affirmative Action/Equal Opportunity Employer.

Dr. Mary Lou Clements
Chair, Immunology and Infectious Diseases Search Committee
C/o Ms. Robin Fox
The Johns Hopkins University School of Hygiene and Public Health
Room 1041
615 N. Wolfe Street
Baltimore, MD 21205-2179

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**POSTDOCTORAL RESEARCH ASSOCIATE**

The Immunohematology/Immunohematology Research Program of the Blood Research Institute-The Blood Center of Southeastern Wisconsin seeks qualified individuals (M.D., Ph.D., and/or M.D.-Ph.D.) with research interests in either immunohematology or vascular biology plus experience/expertise in protein chemistry, molecular biology, or cell biology. Candidates for postdoctoral fellowship training or for staff appointment will be considered. Please send resume and references to: Peter J. Sims, M.D., Ph.D., Associate Director, Blood Research Institute, The Blood Center of Southeastern Wisconsin, 1701 W. Wisconsin Ave., Milwaukee, WI 53233. Equal Opportunity Employer-M/F/H/V.
Loan Repayment Program for AIDS Research

- Almost everyone in the biomedical research community is familiar with the National Institutes of Health (NIH) and the number of grants and contracts we award to researchers throughout the country. Did you know that in this fiscal year close to 15% of our $1 billion HIV/AIDS budget is devoted to HIV/AIDS research activities conducted at NIH's 306 acre campus in suburban Maryland? Located close to the center of Washington, D.C., the NIH employs more than 4,000 doctoral level scientists (Ph.D.'s, M.D.'s, D.D.S.'s, D.M.D.'s, D.O.'s, and D.V.M.'s), and our 500-bed clinical center is home to more than half of the research beds in the country.
- Did you also know that the NIH offers the only Federally sponsored, research-based loan repayment program? NIH's Loan Repayment Program for AIDS Research (LRP) enables physicians and scientists to receive repayment of their educational loans—up to $20,000 per year—when they join our HIV/AIDS research team for a minimum service period of only two years. Other LRP benefits include reimbursement for Federal, State and local tax liabilities, and all LRP benefits are made in addition to attractive Federal salaries and associated benefits. Positions may be in basic, clinical, laboratory or subspecialty research programs at more than eighteen NIH institutes.
- The NIH provides exceptional training opportunities in basic and clinical research. The following are some examples of the HIV/AIDS research projects in which our LRP participants are engaged: a molecular analysis of the viral burden in blood and lymphoid tissue of HIV-infected individuals on antiretroviral agents; a longitudinal study of the neurological dysfunction and neuroimmunological profile in HIV-infected, asymptomatic individuals; the design and synthesis of synthetic peptide polymers for the production of anti-HIV vaccines; and a randomized trial of a sustained-release intraocular drug delivery system for ganciclovir therapy of cytomegalovirus.
- The LRP may be just the program you are seeking to help manage your educational debt burden. Telephone the LRP Infoline, 24-hours a day toll-free, at 800-528-7689, to obtain our recently updated Applicant Information Bulletin, a summary of our HIV/AIDS research accomplishments and plans, and a User's Guide to the NIH EDNET, an electronic bulletin board listing NIH's postdoctoral training opportunities.

This program is administered without regard to race, color, national origin, handicap, age, sex, or religion.

Texas A&M University
Head, Department of Biology

The College of Science, Texas A&M University, invites applications for the position of Professor and Head of the Department of Biology. The successful candidate will be a distinguished scholar who possesses an outstanding record of leadership, research and teaching. The Head provides academic and administrative guidance for a vigorous 42-member faculty whose interests range in molecular, cellular, and organismal facets of animal, microbial, and plant systems. He or she will ensure that the quality of teaching programs and research environment within the Department are maintained and enhanced. The Head will maintain an active personal research program, and will promote interaction with other academic and research units of the University, including the Colleges of Agriculture and Life Sciences, Engineering, Liberal Arts, Medicine, and Veterinary Medicine, and the Institute of Biosciences and Technology. The Department of Biology offers undergraduate and graduate degrees in molecular and cellular biology, botany, microbiology, and zoology, and participates in several interdisciplinary programs. The faculty, approximately half of whom were hired within the past seven years, secures more than $3.5 million annually in external competitive funding to support research and innovative teaching. Several faculty members have received national honors, including three NSF Presidential Young Investigator Awards. The Department maintains excellent support facilities for terrestrial and aquatic animal care (AAALAC-approved), transgenic plant growth, and gene technology. Applicants should submit a letter of interest, curriculum vitae, and the names, addresses, and telephone numbers of five references to Dr. Fuller Bazar, College of Science, Texas A&M University, College Station, TX, 77843-3237. Inquiries may be directed to Dr. Bazar, Search Committee Chair, by telephone (409-845-3058) or Fax (409-845-0680). Applications should be received by September 1, 1993, although the search will continue until a suitable candidate is identified. Texas A&M University is an Equal Opportunity/Affirmative Action Employer/Educator, and is sensitive to the needs of dual-career couples.

MicroGeneSys is pursuing the development of novel vaccines for infectious diseases and cancer. The following positions are available for qualified individuals:

TEAM LEADERS AND RESEARCH INVESTIGATORS will participate in new and established research programs in a collaborative environment. Team leaders will direct specific vaccine and core technology programs and research investigators will participate in discovery and product development activities. Qualifications include a Ph.D. or M.D. degree with 3 or more years of post-doctoral and/or industry experience.

VIROLOGY / MICROBIOLOGY. Broad understanding of pathogenesis and host immunity in viral or microbial diseases is essential. Applicants should have a strong foundation in virology, microbiology, and molecular biology related techniques and experience in vaccine research.

PROTEIN CHEMISTRY. Strong background in the development of purification protocols for recombinant proteins is required. Experience with the purification of viral and cell membrane glycoproteins is desirable. The successful applicant will work with research groups to define the structural, biological and immunological activity of purified proteins as well as with scientists responsible for formulation and scale-up activities.

IMMUNOLOGY. Experience and strong interest in the development of vaccines for the prevention and treatment of infectious disease and cancer are required. Background in characterization of T and B cell responses, formulation and adjuvant research, and animal models is desired. The successful candidate will participate as a leader or team member with other research scientists in the discovery and development of prophylactic and therapeutic subunit vaccines.

MicroGeneSys offers a creative research environment, competitive salaries, an excellent benefit package and relocation assistance. Our campus-like facility is between the Hartford and New Haven metropolitan areas in a rural setting overlooking the beautiful central Connecticut hills. Please forward your resume and salary history in complete confidence to:

MicroGeneSys, Inc.
Human Resources, Dept. TLR
1000 Research Parkway
Mendon, CT 06450-7155
**Wyeth-Ayerst Research**

Wyeth-Ayerst Laboratories is a Division of Fortune 100 American Home Products Corporation, a leading manufacturer and marketer of health care products with multi-billion dollar annual sales and an impressive record of growth and profitability.

**Microbiology & Biotechnology Division, Radnor, Pennsylvania**

**POSTDOCTORAL SCIENTIST**

Become an integral member of our osteoporosis research team. We would like to talk with you if you are a recent Ph.D. with training in cell biology, molecular biology or a related field. The project involves applying cell and molecular biology techniques to our studies of bone remodeling.

This is a one year appointment which may be renewed for another year. For the above position, please submit curriculum vitae to: Wyeth-Ayerst Research, Human Resources, Position #50035, P.O. Box 8299, Philadelphia, PA 19101.

**In Vitro Toxicology Laboratory, Princeton, New Jersey**

**RESEARCH SCIENTIST**

This scientist will be directly responsible for the operation of a laboratory developing screening procedures in in vitro toxicity techniques. The work will involve the screening of potential drug products for effects on target cell cultures. Requirements include a Ph.D. or equivalent in toxicology or a related discipline and 3-5 years experience in cell and tissue culture techniques. The ability to innovate the design of appropriate experiments is also required.

For the above position, please forward your curriculum vitae with salary requirements to:


Equal Opportunity Employer, M/F/D/V.

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**National Institutes of Health (NIH)**

**SCIENTIST**

The National Center for Human Genome Research seeks outstanding candidates with a Ph.D., M.D., or equivalent degree and experience in molecular biology or genetics, chemistry/biochemistry, bioengineering, or computational biology to coordinate a review of a broad spectrum of applications concerned with physical and genetic mapping, sequencing, informatics, and ethical issues related to genomic research. The position offers an exciting opportunity to join a talented team of scientists managing the Human Genome Project and shaping the future of biology and medicine. Salary range is $40,298 to $73,619; citizenship required. Candidates should submit curriculum vitae and names of three references to:

Linda Engel
Chief, Office of Scientific Review
National Center for Human Genome Research, NIH
Building 38A, Room 604
9000 Rockville Pike
Bethesda, MD 20892

NIH is an Equal Opportunity Employer

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**GENENTECH**

Our focused approach to science has resulted in the richest product pipeline in our industry. As we move these human therapeutics to market, we’re continually seeking top professionals to join us.

**Associate Scientist/Scientist**

Working in the area of Pulmonary Drug Delivery, you will administer peptide and protein drugs to animals and quantify the deposition and disposition of these materials. You will be involved in the design of aerosol delivery systems and in fundamental aspects of drug delivery to, and through the lung.

You should have a Ph.D or equivalent in Pharmaceutics, Physiology or related field and be familiar with aerosol and intratracheal administration of drugs to experimental animals and with chromatographic methods of drug analysis. Experience handling radioactive materials and/or knowledge of lung histology is desirable.

Genentech offers an exceptional benefits package which includes fully paid dental/medical/vision coverage for you and your dependents, child care facilities, free health club membership and a generous relocation package. For immediate consideration, please send your resume to: Genentech, Inc., Human Resources, Dept. SW/IG, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We promote and actively support affirmative action and equal employment opportunity.

Genentech, Inc.
“Structure/Function Relationships in Proteins and Enzymes”

I. Structure and Dynamics of Apomyoglobin
II. Metals in Enzymes: Structural and Functional Roles
III. Role of Proteins in Regulation and Control
IV. Molecular Recognition in Signal Transduction Pathways

Keynote – Thomas J. Watson, Jr. Lecture in Molecular Biology
Symposium Director: Kamal Rashid
Symposium Chair: C. Robert Matthews
Contact: Penn State Biotechnology Inst.
519 Wurtik Laboratory
University Park, PA 16802
814-863-3650 or 800-833-5533

RESEARCH SCIENTIST
Helping The Body To Heal Itself:
Bringing The Future Of Immunology Closer To Today

We cannot invent a better – or safer – system to fight disease than our own immune response system. Here at Immunobiology Research Institute, a Johnson & Johnson company, we are learning to harness the body’s own natural ability to heal itself through powerful, non-toxic peptide drugs. Led by the world-renowned immunologist, Dr. Gideon Goldstein, and fully supported by the resources of Johnson & Johnson, IRI’s scientists are conducting some of today’s most far-reaching and exciting work in immunobiology.

We have an immediate opportunity for a highly motivated Research Scientist to join our Molecular Immunology Department. A PhD with 3+ years’ postdoctoral experience and experience in molecular biological approaches to receptor isolation and characterization are required. Experience in cytokine/lymphokine receptor cloning and characterization is essential; a background in receptor-mediated signal transduction is a plus.

Our first-class laboratory, on our quiet university-like New Jersey campus, provides a superb research atmosphere which fosters the exploration of new ideas and the interchange of knowledge. We also offer an excellent salary, comprehensive benefits, and the opportunity to work side-by-side with some of the brightest figures in the pharmaceutical industry. If you would like to join our team, please send your resume to: Director, Human Resources Dept., Immunobiology Research Institute, Route 22 East, P.O. Box 999, Annandale, NJ 08801-0999.

We are an Equal Opportunity Employer m/f/d/v.

Immunobiology Research Institute
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Miles Inc. is a leading chemical, health care and imaging technology company — a member of the Fortune 100 with one of the industry’s most diverse and successful product lines. To help us ensure continued product quality, we are seeking a

RESEARCH SCIENTIST

Incumbent will perform chemical analyses in support of animal toxicology studies, develop and validate new analytical procedures, upgrade data acquisition and processing capabilities, and train subordinates. This position requires a Master’s degree in Biochemistry, Pharmacology or Toxicology with five or more years industrial experience including expertise with HPLC, GLC and automated data processing. Qualified candidate must also possess strong communication skills, innovative outlook and ability to work well on a team.

The selected professional will be based at our Elkhart, Indiana facility and receive an attractive salary and benefits package. For confidential consideration, please send your resume to: Ed Klimek, Sr. Personnel Representative, Dept. 412, Miles Inc., P.O. Box 40, Elkhart, Indiana 46515.

National Institute of Allergy and Infectious Diseases
National Institutes of Health

PROTEIN X-RAY CRYSTALLOGRAPHER

A protein crystallography laboratory is being established with intramural funding to conduct an original research program and to interact with other scientists within the NIH intramural program. Ph.D. or M.D. applicants should have a record of achievement in solving protein structures by X-ray crystallography. Salary commensurate with credentials and research experience.

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

John E. Coligan, Ph.D.
Chief, Biological Resources Branch
NIAID, NIH
Bldg. 4, Room 413
9000 Rockville Pike
Bethesda, MD 20892
(301) 496-3213 phone
(301) 496-5208 fax

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POSITIONS OPEN

POSTDOCTORAL POSITION

Immediate postdoctoral position available to study mast cell proteases and their interaction with inhibitors. Research involves (1) the mechanism of protease-inhibitor interaction and analysis of mast cell chymase interaction with recombinant forms of the protein inhibitor, a 1-antichymotrypsin, (2) the mechanism of human tryptase inhibition by auto-inactivation, and (3) recombinant expression and purification of cell protease. Position is supported by an NIH Training Grant. Candidates must be U.S. citizen or holders of an Immigration Visa to the United States. Reply to: Dr. Norma Schechter, Department of Dermatology, University of Pennsylvania, 422 Curie Boulevard, Philadelphia, PA 19104-6142. Affirmative Action/Equal Opportunity Employer.

TWO POSTDOCTORAL POSITIONS AVAILABLE

One will work on molecular biology and/or enzyme mechanisms of the gamma-glutamyl carboxylase; the other will participate in the purification and cloning of an endothelial cell receptor for human coagulation factor IX. Send/FAX curriculum vitae and 3 letters of reference to: Darrel Stafford, Department of Biology, 442 Willard Hall, University of North Carolina Chapel Hill, Chapel Hill, NC 27599-3280, FAX: (919) 962-0597.

POSTDOCTORAL POSITION

DEPARTMENT OF MEDICINE

Rapidly growing and dynamic postdoctoral position is available for a recent Ph.D. to join a multidisciplinary laboratory studying the control of bone cell differentiation and mechanisms of neoplasia. Experience with molecular biological and/or protein biochemical techniques is required. Send curriculum vitae, statement of research interests, and names of three references to: Arthur Syrkin, M.D., Laboratory for Cell and Molecular Biology New England Deaconess Hospital Harvard Medical School 183 Pilgrim Road BURL Building, 5th Floor Boston, MA 02115

POSTDOCTORAL POSITION

IN BONE RESEARCH

Position is available immediately to study the mechanisms underlying bone loss and its modulation using in vivo and in vitro models. Candidates must have a Ph.D. and experience in narrow cultures, cytoxins, bone histomorphometry. Small animal surgery is desirable. Send letter of application and curriculum vitae and arrange for three letters of recommendation to be sent to: Dr. B. E. Karp, Department of Physiology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7756. Telephone: 210-567-4335. FAX: 210-567-4410. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW EMORY UNIVERSITY

A position is open to participate in ongoing studies of transcriptional regulation of insulin-like growth factor-1 (IGF-1). Applicants should have experience with cell culture, sub cloning, and characterization of DNA-protein interactions. Please send curriculum vitae and names and addresses of three references to: Lawrence S. Phillips, M.D., Director, Division of Endocrinology and Metabolism, Emory University School of Medicine, 69 Butler Street, SE, Atlanta, GA 30303. An Equal Opportunity Employer.

POSTDOCTORAL FELLOW POSITION

Postdoctoral fellowship position available at the Weis Center for Research in the laboratory of Dr. Kenneth M. Baker to study the molecular and biochemical regulation of cardiac cellular growth, including angiogenin-receptor signal pathways. Ph.D. or M.D./Ph.D. candidate with molecular background preferred. Send curriculum vitae and the names and addresses of three references to: scrimmage Human Resources (KMB), 100 North Academy Avenue, Danville, PA 17822-1529. Equal Opportunity Employer, M/F/H/V.

HIV RESEARCH AT JOHNS HOPKINS

TWO NIH-FUNDED POSTDOCTORAL

FELLOWSHIPS IN AIDS RESEARCH

Applications are invited for two 2-year NIH-funded postdoctoral positions at the Johns Hopkins University School of Medicine. This program offers research training in molecular biology, biochemistry, and immunology with the goal of stimulating interest in research careers in AIDS-related fields. Interested candidates should send curriculum vitae, letter of interest and three letters of recommendation to: Dr. WEIGHTMORE, Department of Immunology and Infectious Diseases, Johns Hopkins University School of Medicine, 615 North Wolfe Street, Baltimore, MD 21205. Telephone: (410) 955-2791. Telecopie: (410) 955-1622.

POSITIONS OPEN

COLUMBIA UNIVERSITY CENTER FOR RADIOLOGICAL RESEARCH

Applications are invited for a MOLECULAR BIOLOGIST to join an active research group to characterize the molecular events involved in radiation transformation in vitro and in vivo. The position will be made at the POSTDOCTORAL FELLOW, ASSOCIATE RESEARCH SCIENTIST or ASSISTANT PROFESSOR level depending on qualifications and experience. Send curriculum vitae, recent reprints and names of three references to: Dr. Jerry L. Hall, Director, Center for Radiological Research, Columbia University, 630 West 166th Street, New York, NY 10032. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP

A position is available to study the genetics, biochemistry, and immunology of skin tumors. The candidate will participate in the characterization of gene function with emphasis on protein-protein interactions using a variety of biochemical approaches. Experience in gene expression and molecular biology is highly desirable. Send curriculum vitae, reprints and names of three references to: Dr. Dr. V. E. Hall, Department of Physiology, University of California, 1382 South Maryland Avenue, Chicago, IL 60637. Telephone: (306) 996-6436. FAX: (306) 996-6461. Email: kingj@sask.usask.ca. Applications will be accepted until the position is filled.

POSTDOCTORAL FELLOWSHIPS—Transcription regulation of cancer (A. Rud dell): Immunological and molecular approaches will characterize transcription factors regulating c-myc oncogene expression and retroviral induction of avian B cell leukemia (J. Virol. 66:6578, 1992). Molecular Virology/Genetic Therapy (S. P. Rowitch): Genes that drive a number of human herp onavirus 6, including analysis of viral termini and origin of replication. Future goals include HHV-6 based vectors for tissue engineering. Send curriculum vitae and names of three references to: Dr. Stephen P. Rowitch, Department of Neurology/Molecular Biology, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642.

Two- to three-year NIH FELLOWSHIP POSITION as part of "Motor Neuron Disease" (MND) program project investigating the selective vulnerability of the motor neuron. Projects include molecular pathogenesis studies of a neurotrophic virus (Dr. R. Roos), role of excitatory amino acids, free radicals, and calcium in neuronal damage (Dr. R. Miller) and human genetic studies of familial MND (Dr. T. Siddique, Northwestern Medical School). Send resume and names of three references to: Dr. Raymond P. Roos, Department of Neurology/MC2030, University of Chicago, 5841 South Maryland Avenue, Chicago, IL 60637. University of Chicago is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL RESEARCH ASSOCIATE

The USDA Agricultural Research Service, Orlando, Florida, is seeking a Research Associate to identify and characterize plant defensive proteins (pathogenesis-related proteins) and their genes, determine elicitors, and evaluate cultivars and plant defense proteins. Candidates must have Ph.D.; experience in plant/microbe biochemistry, protein purification, and molecular biology. Salary is negotiable. Send resume with experience and references to: Dr. R. T. Mayer, 407-897-7304. An Equal Opportunity Employer.
Department of Health and Human Services  •  Public Health Service  •  National Institutes of Health  
National Institute on Deafness and Other Communication Disorders

CLINICAL DIRECTOR, NIDCD

Opening Date: April 19, 1993  Closing Date: June 18, 1993

(The applications must be postmarked by the closing date.)

The National Institute on Deafness and Other Communication Disorders (NIDCD) is recruiting for the position of Clinical Director, NIDCD. The Clinical Director, NIDCD, will serve as the principal advisor to the Institute Director on biomedical scientific affairs involving the clinical research program. He/She will recommend and develop policies and programs for the execution of clinical research, determine the ongoing effectiveness of clinical research programs, and recommend or develop new research programs in clinical research related to diseases and disorders of hearing, balance, smell, taste, voice, speech, and language. In collaboration with senior officials, incumbent will participate in the design and implementation of overall Institute management policies including program planning, budget formulation, and resource allocation.

This is a Civil Service position in the Senior Executive Service (SES), with base salary currently from $92,900 to $115,700 per year depending on qualifications. SES members are eligible for various bonuses and awards and physicians may be eligible for a Physician’s Comparable Allowance of up to $20,000 per year, although total compensation cannot exceed the rate for Executive Level I (currently $148,400 per year). Exceptional recruiting difficulty may result in payment of a recruitment or relocation bonus. The candidate must be a licensed physician with appropriate residency training in otorhinolaryngology or other appropriate specialty of medicine. Alternatively, applicants may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service. The SES individual selected, if not presently in the Senior Executive Service, must serve a one-year probationary period.

Further information about the position and qualification requirements may be obtained by contacting Ms. Gayle G. Mundell at 301 402-0508 (Voice or TDD) or TDD 301 402-1134. An Application for Federal Employment (SF-171) along with a Curriculum Vitae and Bibliography should be submitted to:

Ms. Gayle G. Mundell
Personnel Management Specialist, NIDCD
National Institutes of Health
National Institute on Deafness and Other Communication Disorders
Building 31, Room 3C11
9000 Rockville Pike, Bethesda, MD 20892

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BIOLOGY TRAINING COURSE
IN ANTARCTICA

“Biological Adaptations of Antarctic Organisms”

A 4-week course will be offered in Antarctica in January 1994 that will emphasize cold adaptation, energy metabolism, and molecular genetics of Antarctic organisms. This NSF-sponsored course will be held in the recently completed Carey Science and Engineering Center (46,000 sq. ft.) located at McMurdo Station in Antarctica. Applications are invited from individuals wishing an introduction to Antarctic Biology prior to doing research in this environment in the future, or from individuals who have done research in Antarctica before and wish to develop new approaches and techniques. Applications are especially encouraged from graduate students, but the course is also open to postdoctoral fellows and other research scientists. This is an international course, open to all nationalities. The format of the course will consist of field collections and laboratory experiments together with lectures from course faculty and guest speakers. The themes for the 1994 course will be: (i) temperature adaptations of fish (A. DeVries, Univ. of Illinois), (ii) energy metabolism during larval development of marine invertebrates (D. Manahan, Univ. of Southern California), and (iii) osmoregulation and molecular genetics of algae (L. Goft, Univ. of California, Santa Cruz). Full Scholarships are available to qualified applicants to cover travel from home institution to McMurdo, and room and board while in Antarctica. Deadline for completed applications is July 31, 1993. To obtain an application form write to: Director, Science Support, Attn: McMurdo Biology Course, Antarctic Support Associates, 61 Inverness Drive East, Suite 300, Englewood, Colorado 80112, USA (Phone 303-790-8606; FAX 303-790-9130; E-Mail: SKEPERD.ASA@ASA.ORG).

Research Scientist
Invertebrate Pest Control

A leading agricultural products company is seeking a Ph.D. level scientist with a strong interest and research experience in crop protection research for a position in their Invertebrate Pest Control Group. Candidates should have:

- Ph.D. degree in Entomology or related discipline
- Demonstrated record of accomplishment in Hemiptera biology, with a specialization in Aphidology
- Research accomplishments in the chemical ecology of Hemiptera/host plant interactions, focusing on host plant recognition, selection and feeding by insects
- Experience in the application of electrophysiological techniques to study Homoptera feeding behavior
- Experience in the use of chemical/physical parameters in developing models of chemical/plant interactions
- Experience in the design, execution, and analyses of laboratory assays and field efficacy evaluations of developmental and experimental pesticides vs commercial standards
- Experience in evaluation of combinations of alternative control strategies for sap feeding insects; and in insect biometrics
- Strong background in plant sciences, especially Agronomy, Crop Physiology, Plant Virology and Insect Vectors of Disease
- Demonstrated practical experience of global agricultural practices, especially in Europe and Africa; and in application of knowledge to solving problems in agriculture worldwide.

The successful candidate will become a member of a multidisciplinary research team focused on the development of innovative insect control strategies. We seek an individual who is creative, has value for environmental integrity and believes that science-based solutions for crop protection and crop production will have positive impact on the quality of life.

The position is located at our mid-Atlantic facility. Application deadline is June 30, 1993. Interested candidates are invited to forward their resumes and three references to:

Dept. RS-TH, Box 28, 834 Chestnut Street, Philadelphia, PA 19107

An Equal Opportunity Employer
**Director, Minority Opportunities in Research Programs Branch**

This is a civil service position in the Senior Executive Service (SES) with a salary range from $92,900 to $107,300. Serves as the principal advisor to the Director, NIGMS, regarding the overall direction of and approaches to the Institute’s minority research and research training programs. Advises NIGMS senior staff and, as appropriate, officials of other NIH ICs, of NIH as a whole, or of other agencies, as well as members of Congress, on trends and developments concerning these programs as they relate to the missions of the NIGMS, NIH, PHS, DHHS, other Federal agencies, the biomedical research community, and related groups. Keeps the Director, NIGMS, and other officials fully informed of program and related considerations having significant bearing upon the planning, development, and administration of NIGMS minority research and research training programs. Oversees resource allocations and advises the Director, NIGMS, as to distribution among the various minority research and research training mechanisms supported by the Institute as well as priorities in regard to award of specific grants. Serves as a channel of communication with the NIH, other agencies, the Congress, and the extramural community regarding these programs.

Position information and qualifications requirements may be obtained by contacting:

Howard R. Chernoff, Personnel Officer
National Institute of General Medical Sciences
5333 Westbard Avenue, Room 803, Bethesda, MD 20892
(301) 594-7787

Application for Federal Employment (SF-171), CV and Bibliography must be submitted to above address and received no later than July 1, 1993.

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

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**TAMPA BAY RESEARCH INSTITUTE**
**Laboratory Director/Professor**

Tampa Bay Research Institute of St. Petersburg, Florida and Salem-Tekyo University of Salem, West Virginia are currently soliciting applications for two Senior Scientist Research Laboratory Director positions for its development of a joint Graduate Program in Molecular Biology/Biotechnology. The focus of the research will be in the study of human virus latency with emphasis using molecular biology approach and antiviral therapy. The area of signal transduction and oncogenes will also be considered.

Salem-Tekyo University is planning to establish a Graduate Program to be implemented in the Fall of 1994. The incumbent must have demonstrated communication skill and ability to teach at the graduate level. The incumbent is encouraged to bring their established laboratory with them to the Tampa Bay Research Instutue facility.

Successful candidates will direct graduate student research and have their research programs located in Florida. The candidate will also be required to teach one course per year at Salem-Tekyo University in Salem, West Virginia. Successful candidates will hold a joint appointment with the Tampa Bay Research Institute and Salem-Tekyo University.

Tampa Bay Research Institute is based in a modern facility with excellent individual laboratory and office space, and centralized facilities including a Biotechnology Service Laboratory, transgenic mice and in-house DNA sequence database.

Applicants should have a Ph.D. or equivalent. Interested individuals should send curriculum vitae, list of publications, a short statement of research achievements, and names and addresses of three referees to the Chairman, Search Committee, Tampa Bay Research Institute, 10900 Roosevelt Boulevard, St. Petersburg, FL 33716.

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**EPA Research and Development**

**IMPROVED RISK SCIENCE RESEARCH PREPROPOSALS**

The Environmental Criteria and Assessment Office in Cincinnati, OH (ECAO-CIN) seeks preproposals for Competitive Cooperative Agreements on improved human health and environmental risk assessment methodologies. This program will be funded as part of the U.S. EPA and Department of Defense/Energy’s Strategic Environmental Research and Development Program (SERDP) created by the FY-91 Department of Defense Authorization Act. Proposed work will support an investigation in the formulation of risk assessments and methods appropriate to federal environmental and surrounding areas. Of particular interest, are new approaches to real world situational analyses involving multiple risks through multiple environmental media (air, water, soil).

Preproposals will be accepted in the following areas: (1) Quantitative human health assessment methods for chemical MIXTURES from point or distributed sources, (2) Comparative risk assessments on MULTIPLE health effects amongst biological/chemical co-mingled environmental stressors, (3) Risk-oriented BIOMATHEMATICAL techniques such as categorical regression modeling and experimental design for threshold dose estimation, (4) PREDICTIVE in-vitro testing methods and decision trees that substantially reduce (75%) whole animal testing for risk prioritization and/or screening schemes for products/packaging processes/wastes/recycling, and (5) Techniques for measuring, reducing, and expressing UNCERTAINTY as part of the process of risk characterization.

Preproposals will be reviewed by the Technical Evaluation Panel of scientists from inside and outside EPA. Criteria for award will be scientific merit and relevance to the goals of SERDP. Awards will range from $50,000 to $250,000 for three years depending upon funds availability.

To obtain a preproposal package, write to Ms. Nancy or FAX to Bauer, ECAO-CIN, 26 W. Martin Luther King Dr., Cincinnati, OH 45268 or FAX to (513-569-7475). The preproposal package should be limited to one to three pages. Six copies of the preproposal package must be postmarked on or before June 30, 1993.
"EVERYONE AND THEIR GRANDMOTHER WANTS TO DO STEM-CELL EXPANSION..."
- Bio/Technology, October 1992

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At SyStemix, our revolutionary approach to stem-cell expansion has resulted in the discovery and isolation of hematopoietic stem cells and megakaryocyte progenitors. Remarkable milestones for any company. Now you can contribute to this exciting research. With a company that's making stem-cell expansion history. Consider the following areas:

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SYSTEMIX

THE NEUROSCIENCES INSTITUTE
La Jolla, California

THE NEUROSCIENCES INSTITUTE (NSI), an independent not-for-profit organization at the forefront of research on the brain, invites applications for positions in theoretical and experimental neurobiology. The NSI is also the home of the Neurosciences Research Program and serves as an international meeting place for neuroscientists; Fellows have opportunities to interact with visitors from many institutions worldwide. The NSI is now located on the campus of The Scripps Research Institute in La Jolla, California, where new buildings will be completed in the summer of 1994.

THEORETICAL NEUROBIOLOGY

APPLICATIONS ARE INVITED FOR POSITIONS AS INSTITUTE
Fellow in Theoretical Neurobiology. Since 1987, the NSI has had a research program dedicated to developing biologically based, experimentally testable theoretical models of neural systems. Current projects include large-scale simulations of neuronal networks, the design of behaving automata, and detailed formulations of biologically based models of perceptual systems. Advanced supercomputer facilities are available. Institute Fellows will have daily opportunities to interact with Fellows in Experimental Neurobiology.

Applicants should be at the postdoctoral or assistant professor level with strong backgrounds in experimental or theoretical neuroscience or related fields. Experience in computer modeling is especially welcome. Positions are now available.

EXPERIMENTAL NEUROBIOLOGY

APPLICATIONS ARE INVITED FOR POSITIONS AS SENIOR
Fellow and Junior Fellow in Experimental Neurobiology. The NSI is beginning a research program in experimental neurobiology designed to increase understanding of brain processes at several organizational levels from the molecular to the cognitive. After completion of new NSI laboratory facilities in the summer of 1994, research will be carried out in such areas as molecular biology, cellular neurobiology, pharmacology, neuroanatomy, functional brain imaging, and psychophysics. Fellows in Experimental Neurobiology will be expected to take advantage of opportunities for scientific exchanges with Fellows in Theoretical Neurobiology.

Applicants should be at the assistant professor (Senior Fellow) or postdoctoral (Junior Fellow) level and should have backgrounds in experimental neurobiology. Senior Fellows will be provided with adequate financial support to equip laboratories and maintain ongoing independent research programs. Starting dates for these positions will be July 1994 or thereafter.

ALL FELLOWS WILL RECEIVE STIPENDS APPROPRIATE TO
their qualifications and experience. Candidates should send a short statement of research interests, a curriculum vitae, and the names of three references to: Dr. W. Einar Gall, Research Director, The Neurosciences Institute, 3377 North Torrey Pines Court, La Jolla, California 92037.
POSTDOCTORAL RESEARCH ASSOCIATE
Molecular Biology
Development of ecologically sound microbial insecticides is the mission of Novo Nordisk Entotech, a wholly owned subsidiary of Novo Nordisk A/S, a Danish biotechnology company. As part of this goal, we have opened a new position for an enthusiastic, motivated individual to study novel aspects of gene expression in Bacillus thuringiensis. The current position offers several specific, exciting projects to choose from, the opportunity to interact with a number of dedicated Bacillus molecular biologists, an active salary and benefits. Appropriate individuals will be imaginative and highly skilled in recombinant DNA techniques. Please submit cover letter and resume that clearly indicate your research experience and career interests, as well as a list of three referees, to:
Dr. Lee F. Adams
Staff Researcher
Novo Nordisk Entotech, Inc.
1497 Drew Avenue
Davis, CA 95616-4880
Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE
The Laboratory of Extracellular Matrix of the Department of Obstetrics and Gynecology, University of Rochester at Rochester General Hospital is a biochemical and physiology laboratory studying the mechanisms of cervical remodeling and the biochemical changes of cervical tissues in pregnant women. We are looking for a Ph.D. or M.D. to work within our active research laboratory which integrates anatomy, physiology, and biochemistry. Specific areas include the hormonal control of the remodeling mechanism of the cervix focused on proteolytic changes induced by proteases, collagenase and elastase in uterine tissues and their inhibitors, as well as by cytokine regulation. Biochemistry and molecular biology expertise required. Send curriculum vitae to: Phyllis C. Leppert, M.D., Ph.D., and Shiu Yeh Yu, Ph.D., Department of Obstetrics and Gynecology, Rochester General Hospital, 1425 Portland Avenue, Rochester, NY 14621. The University of Rochester is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH SCIENTIST
Position available immediately at the Iowa City Veterans Administration and the University of Iowa Medical Center Campus to study biology of allergic inflammation and granulocyte chemotactic processes. Experience in immunology, cell biology, and molecular biology preferred. Salary commensurate with experience. Please send curriculum vitae, a list of three references to: Thomas B. Casale, M.D., c/o Personnel Office, VA Medical Center, Highway 6 West, Iowa City, IA 52246. All applications for VA employment are subject to urinalysis to screen for illegal drug use prior to appointment. Applicants who refuse to be tested will be denied employment with the VA.

For additional information contact:
CHRISTINE V. MASSEY
PERSONNEL SERVICE (05)
VA MEDICAL CENTER
1300 10TH STREET
IOWA CITY, IA 52246
Telephone: 319-338-0581, Extension 7731
Department of Veterans Affairs
AN EQUAL OPPORTUNITY OPPORTUNITY.

RESEARCH ASSOCIATE
POSTDOCTORAL RESEARCH FELLOWSHIPS for newly established Vascular Biology Program at Wayne State University (WSU). Areas of investigation include molecular and cellular biology of ion channels/pumps, transmembrane signaling and endothelial cell function. Projects include both in vivo and in vitro work. All nationalities invited. Please send resume to: Program Coordinator: Rick Schiebinger, M.D., UHC-H, 4201 St. Antoine, Detroit, MI 48201 or call (313) 355-0903 for more information. WSU is an Affirmative Action/Equal Opportunity Employer.

MOLECULAR REPRODUCTION—POSTDOCTORAL/RESEARCH ASSOCIATES: Several positions are available to become part of an interdisciplinary research team using molecular and cellular biological methods to study development and differentiation. Projects include the molecular basis of cell adhesion during early mammalian embryogenesis, receptor tyrosine kinase and protein tyrosine phosphatase mechanisms of gene potentiation. Interested individuals should forward curriculum vitae, copies of representative publications and three letters of recommendation to: Postdoctoral Molecular Reproduction Program, C. S. Mott Center for Human Growth and Development, Wayne State University School of Medicine, 2775 Highland, Detroit, MI 48201. WSU is an Equal Opportunity Employer.

RESEARCH ASSOCIATE to study the molecular biology of the androgen receptor and aromatase in nonhuman primate brains and teach graduate courses in reproductive endocrinology. Requires: Ph.D. (physiology—reproductive endocrinology), 4 years of postdoctoral training with research experience using radio-receptor binding techniques, immunohistochemistry, molecular biology and recombinant DNA techniques (e.g., cloning, Northern blotting, and Southern blotting), protease assay, reverse transcription, polymerase chain reaction, DNA sequencing and in situ hybridization). Experience with androgen and estrogen receptor P450 biology, and brain dissection is essential. Requires at least 2 years of experience teaching graduate students. Publication of at least 3 research papers in peer-reviewed journals is highly desirable, and will be considered as evidence of competence as an independent researcher. Applicants will be considered for a month after publication of this advertisement. Send application letter, curriculum vitae and not more than three references to: Dr. John A. Resko, Department of Physiology, L334, Ong TV Recipient, University of Texas Southwestern Medical Center, Dallas, TX 75390. Equal Opportunity/Affirmative Action Employer.

The Liposome Company, a rapidly expanding Princeton-area biotechnology company, has an immediate opportunity available in its Bio Sciences Research Department:

RESEARCH ASSOCIATE
We are seeking a Research Associate to assist in the design, implementation, and analysis of preclinical drug development studies. The qualified candidate will possess a B.S./B.A. in Biology or related discipline and must have experience with small lab animals administering drugs i.v., cell culture, ELISA assays and computer skills a plus. We offer a competitive salary and comprehensive benefits. Send resume to: Deborah Pacasle, Human Resources Department, The Lipoosome Company, One Research Way, Princeton, NJ 08540. An Equal Opportunity Employer.

The Lipoosome Company

RESEARCH TRAINING IN GEROONTOLOGY
Positions available in NIA training program directed toward basic research in gerontology with special emphasis on the nutritional manipulation of the aging processes. General areas include: muscle atrophy and exercise, endocrinology and neuroendocrinology, free radicals and membrane lipid peroxidation, immunology, cellular calcium and bone metabolism, senescence mechanisms, and regulation of gene expression. Send curriculum vitae, description of research interests and the names of three references to: Dr. Byung P. Yu, Department of Physiological Biology, University of California, San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78247-7756. Only U.S. citizens or individuals with permanent resident status need apply. An Affirmative Action/Equal Opportunity Employer.

A POSTDOCTORAL RESEARCH POSITION is available for a Ph.D. with molecular biology experience to study transcription factors involved in the regulation of protein metabolism during senesce and other critical illness. The position is full time in the field of molecular biology required. Please submit cover letter, curriculum vitae and references to: Per-Olof Hasselgren, M.D., University of Cincinnati Medical Center, Department of Surgery, 231 Bethesda Avenue, MS 585, Cincinnati, OH 45267.

HIGH TECHNOLOGY INDUSTRY CONSULTANTS
We are seeking Product/Technology specialists in the fields of immunology, protein synthesis, protein chemistry, process development, QA method development and decision making. Call us NOW on +1 928 48007301 or 904-983-7353, FAX: 904-983-3220 via G. Deza 24, 1247 E. and Timberlane Commons, 1300 Timberlane Road, Tallahassee, FL 32312-1712 USA.

P/T RESEARCH DIRECTOR

STAFF SCIENTIST AND/OR SENIOR POSTDOCTORAL FELLOW to investigate cellular immunology in multiple sclerosis. Gamma-delta T-cells isolated from patient CSF will be analyzed for T-cell receptor clonality, antigen specificity and cytokine production; this project is NIH funded. Additional studies include alpha-beta T-cell involvement in the disease process, elucidation of T-cell reactivity to self or viral antigens and the role of cytokine production. An outstanding opportunity to investigate disease-related immunopathogenesis. Applications from women and minorities please submit curriculum vitae and 3 references to: Ronald S. Murray, Rocky Mountain Multiple Sclerosis Center, Department 7550, 501 East Hampden Avenue, Englewood, CO 80110. FAX: 303/788-5418.

CELL GROWTH AND DIFFERENTIATION RESEARCH SCIENTISTS needed for new research facility opening in Denver, Colorado. Cell Pathways, Inc. is expanding its research program on the mechanisms of colonic cell growth and differentiation in conjunction with the University of Colorado and the University of Arizona. Successful candidates will have a Ph.D. in Cell Biology, Biochemistry, Molecular Biology or Pharmacology with 3 plus years experience in the regulation of cell growth and/or differentiation. Candidates should have a strong background in the use of cell culture and animal model systems for the study of growth factor/receptor interactions and intracellular signaling pathways. A knowledge of the regulation of the cell cycle and the molecular genetics of colon cancer is desirable. We offer a highly competitive compensation/benefits/relocation package. resumes including salary history should be submitted to: Dr. Nancy Paranka, Corporate Recruiting, Cell Pathways, Inc., 5620 North Kibb Road, Tucson, AZ 85718. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT RESEARCH MICROBIOLIGIST to conduct studies on the role of cryptic self-determinants on the production of lysozyme, MIP and mycobacterial heat-shock proteins. Requires Ph.D. in immunology; 3 years of postdoctoral experience as biomedical researcher; knowledge of autoimmune diseases, nucleic acids; experience in molecular biology and cellular immunology documented by publications, experience in tissue culture, production of monoclonal Ab, cell line and hybridomas. EBV transfection of B cell, ELISA, peptide synthesis, HPLC, cultivation of mycobacteria and infection of mice with them, purification of DNA and RNA by hybridization, Western, Southern and Northern blotting, RFLP analysis, PCR technique, cloning of DNA, and in training students in experimental techniques in biochemistry, immunology and molecular biology. Send curriculum vitae to: Prof. Eli E. Sercarz, Department of Microbiology & Molecular Genetics, Life Science Building, University of California, Los Angeles, CA 90024 by 21 June 1993. FAX: 310-206-5231. UCLA is an Affirmative Action/Equal Opportunity Employer.
Molecular Virology and Host Defense

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, has two challenging opportunities within the Department of Molecular Virology and Host Defense, a 40-member group whose activities encompass basic and applied research on many aspects of molecular virology and immunology of infectious diseases including immunomodulators, hematoregulatory cytokine research, stromal cell biology, viral pathogenesis and discovery of novel anti-virals.

Postdoctoral Scientist

The successful candidate will participate in the purification, molecular cloning and biological investigation of a novel hematopoietic cytokine. This position will have a tenure of 2 years and is funded by the National Cancer Institute DHEW. Qualified candidates will have a Ph.D. in a biological, biochemical or molecular science or related area. In addition, he/she will have 0-2 years of postdoctoral research experience.

Experimental Hematologist

As an Associate Senior Investigator, the successful candidate will have responsibility for new research initiatives in collaboration with a multidiscipline/multinational program team investigating natural and synthetic hematopoietic agents/cytokines and their application to infectious disease and oncology. Qualified candidates will have a Ph.D. or M.D. in a biological science and 2-5 years postdoctoral experience. Experience at the cellular and molecular levels with in vitro systems and in vivo models investigating differentiation of hematopoietic cells, especially erythroid and megakaryocyte lineage; hematopoietic growth factors or stromal cell biology is preferred. Outstanding applicants with broader backgrounds in aspects of cell biology relevant to hematopoiesis will also be considered.

Our state-of-the-art research facility is located in suburban Philadelphia, near historic Valley Forge. We offer a competitive compensation/benefits/relocation package, as well as the opportunity for growth in a scientifically intense environment structured on creativity, teamwork and commitment. Please send your CV, indicating the desired position, and the names of three references to: Dr. Louis M. Pelus, Assistant Director, Department of Molecular Virology and Host Defense, c/o Marilyn Leggieri, Employment Administrator, SmithKline Beecham Pharmaceuticals, PO Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, MF/DV.
The successful candidate will have a solid educational basis in pharmaceutical technology completed by a fruitful experience in an industrial environment. Inventive and creative, the candidate should be open minded and interested in all pharmaceutical dosage forms, part of the job will be the survey of existing and emerging technologies. Next to the follow up of products already on the market, the candidate will be involved in the formulation of our new molecules; he/she will assure the technical interface between our research teams and our partners in Universities as well as the follow up of our development projects.

A sound knowledge of international regulatory requirements regarding Good Clinical Practices and Good Manufacturing Practices will be an advantage for the integration of Quality Assurance in our development. We would like to meet with candidates having a good sense of diplomacy, able to integrate the individuals participating in our R & D projects. We offer to a candidate with strong capabilities, the possibility to become the Nº1 assistant to our Director of Research.

If you correspond to this profile we propose you to participate in the expansion of our international industrial R & D Group. We offer state of the art equipment highly motivating working conditions and professional opportunities. Applicants should address a handwritten letter, a CV with recent photograph, and salary requirements to: Mr C. Janin, 7, Avenue de Verdun, 92250 La Garenne Colombes, France.
Programmed Cell Death
Umeå Center of Molecular Pathogenesis (UCMP)
Umeå University, Sweden
A call for scientists interested in programmed cell death

A new interdisciplinary research center (UCMP) devoted to programmed cell death will be formed. Internationally competitive scientists will be recruited with an interest in functional, molecular and structural aspects of this process. UCMP will start from the 1st of July 1993, financed by the Swedish Government, the Umeå University and the local City and County Councils.

Umeå University is situated in an attractive area in Northern Sweden with a rich supply of cultural and sport activities. The center will be located in a new building (ready in of spring 1994) also including the Depts, of Microbiology and Cell and Molecular Biology, both leading research establishments in Scandinavia. The scientific environment also includes many internationally competitive groups in the fields of cell biology, immunology and chemistry.

The faculty will consist of one coordinator holding a permanent position and 4-5 independent group leaders with tenure track positions. To integrate functional and structural studies, one of the groups will be oriented towards X-ray crystallography. The coordinator will be supported by a local Administrative Board and by an international Scientific Advisory Board chaired by Prof. Lennart Philipson, New York.

Positions offered:
Coordinator/professor
Group leaders, assoc./assist. professors

The coordinator will receive post-doc fellowships and financial support covering the running costs for three years. The group leaders will be guaranteed financial support for post-doc fellows and seed money covering the running costs for the first two years.

Candidates are invited to send their CV, bibliography, a research proposal and the names of three academic references to Prof. Thomas Edlund, Dept. of Microbiol., Umeå Univ., S-901 87 UMEA, before August 1st. For further information, please contact Prof. Thomas Edlund by fax +46-90-13 99 29.

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Professorship of Fisheries Biology

The University of Iceland, Department of Biology, announces a vacancy of Professor of marine fisheries biology. Candidates are sought who have an established international reputation for research. The Professor shall initiate research and teaching in marine fisheries biology, either in theoretical or experimental ecology of marine fish. Applications from candidates with research expertise in the area of fisheries ecology, population dynamics, life history tactics, evolutionary ecology, or behavioral ecology are especially welcomed although applications from individuals with other research interests will also be considered. We are looking for excellence and potential rather that specific field of research.

The Professor will be responsible for teaching courses in fisheries biology and to participate in related subjects and to supervise graduate students. Normally the language of instruction at the University of Iceland is Icelandic but a foreign candidate could speak a Scandinavian language or English for a period of time. Applications with a comprehensive CV, copies of scientific works, and a short statement of research purpose if appointed should be sent to Personnel Service, University of Iceland, Sudurgata, IS-101 Reykjavik, Iceland, by July 6, 1993. For further information, please contact Logi Jónsson, Chairman, Biology Department (tel.: +354-1-694833, fax +354-1-694069).
THE UNITED NATIONS ENVIRONMENT PROGRAMME (UNEP)
INVITES APPLICATIONS FOR THE POST OF DIRECTOR (D-2), INTERNATIONAL
REGISTER OF POTENTIALLY TOXIC CHEMICALS PROGRAMME ACTIVITY
CENTRE, FOR AN INITIAL TWO-YEAR FIXED TERM APPOINTMENT
EFFECTIVE OCTOBER 1993

The International Register of Potentially Toxic Chemicals has as its main objective to facilitate
access to information and data on chemicals, their effects on human beings and other living
organisms in the environment, and measures and procedures for the control of hazards posed
by chemicals. IRPTC has been established according to the mandate laid down in recommen-
dation 74e of the UN Conference on the Human Environment, Stockholm, 1972. It operates
a computerized information system on chemicals based on a network concept with National
Correspondents and other contributing network partners. IRPTC is assisting Governments
in implementing the London Guidelines for the Assessment of Potentially Hazardous
Chemicals in International Trade and is responsible for the operation of the Prior Informed
Consent (PIC) procedure for banned and severely restricted chemicals. IRPTC is an
international participating institution in the International Programme on Chemical Safety
with responsibility for data collection and dissemination.

Functions:
Under the general supervision of the Executive Director and Assistant Executive Director
(Programme) the incumbent is responsible for the development and implementation of all
policy, planning, budgeting and operational aspects of the IRPTC Programme Activity Centre;
and specifically to: (1) develop a computerized information system on chemicals based on a
central database connected with a network of contributing partners; (2) encourage inter-
governmental, governmental, academic and industrial institutions with a common interest in
chemical safety to assist in the development of the network for factual chemical data
exchange according to harmonized procedures, and to participate in collecting and process-
ing such data; (3) develop information exchange practices and procedures on hazardous
chemicals, in particular those that have been banned or severely restricted in international
trade; (4) develop and operate a query-response service providing data, documentation and
advice to worldwide users on chemicals, their effects on humans and the environment and on
measures and procedures for chemical hazard control; (5) disseminate high-quality data on
chemicals to governments and others with responsibility for safe management of chemicals,
in the form of hard copy publications and by electronic means; (6) encourage national
authorities in establishing national chemical information systems for national needs, as
appropriate, and for participation in a worldwide network for information exchange; (7) assist
national authorities in improving their capabilities to manage chemicals safely by providing
training and technical assistance in the use of data for hazard assessment, risk evaluation
and risk management; (8) prepare and publish a regular Bulletin for worldwide dissemination
of information and data on newly discovered chemical hazards, and newly published risk
evaluations and control measures for chemicals including legislation for chemical hazard
control; (9) prepare regular technical assessments of chemical pollution issues, critical at the
global level; (10) represent the Executive Director at international conferences and meetings
dealing with environmentally sound management of chemicals; (11) prepare Governing
Council documents, evaluate and report on the performance of the IRPTC/PAC and the
network; (12) administer the staff of the IRPTC/PAC; (13) plan, manage and report on the
financial resources of the IRPTC/PAC.

Qualifications:
Advanced University degree in the field of toxicology, environmental chemistry or biochem-
istry, or specialization in any of these fields with a minor in one of the others. Twenty years
or more experience at the national or international level in the field of toxicological,
pharmacological or ecotoxicological research and familiarity with the field of environmental
chemistry, experience in hazard assessment and risk evaluation of chemicals, and in
scientific information handling and electronic data processing. Experience with national
decision-making and enforcement procedures for chemical hazard control. Experience in
managing scientific projects involving consultants and contractors. Fluency in English or
French and a working knowledge of the other essential. Working knowledge of other United
Nations official language(s) an asset.

Salary plus Post Adjustment (Net per annum) in US Dollars
At dependency rate
At single rate
Grade D-2/1 66,711 + 42,828.00 61,183.00 + 39,279.49
Post Adjustment* Post Adjustment* (Plus 60 day’s paid leave every two years; education grant up to $9,750 per child per academic year for expatriates.

Deadline for applications: 5 August 1993
All applications be addressed to Chief Recruitment Unit, UNEP, P.O. Box 30552 Nairobi
Keny Na-35/12 or email requests to KRAFIRPTC or NA-35/12 and to attach an up-dated United Nations Personal History form available from
nearby UN Office or on request from this office. If UN form is unavailable a detailed curriculum vitae including birth date, nationality and working knowledge of United Nations Official languages should be submitted. Candidates having a facsimile contact should provide
number(s).

*Post Adjustment subject to change because of cost of living fluctuation.
THE PATH TO DISCOVERY

Millennium, Inc., an emerging biopharmaceutical company, will become the global leader in the commercial application of genetics and genomics to human therapeutics.

Our molecular and cellular biology programs will explore the molecular mechanisms of newly identified genes and their roles in various disease states. These technologies and insights will result in the identification of disease genes, their function and the development of disease specific therapeutics.

**GENE DISCOVERY/GENOMICS**

**Scientists**
As a scientist with an interest in genomics technologies, you will participate in a multi-faceted program directed toward the identification and cloning of disease-related genes. We are looking for individuals with leadership abilities in each of the following areas: gene-mapping technologies, cDNA library construction and screening, and high-throughput automated sequencing. Publication in leading scientific journals will be actively encouraged. PhD, with appropriate Post Doctoral experience. TZ-2293.

**Research Associates**
In the cDNA core group, you will use your extensive knowledge of both construction and screening of cDNA libraries for the purpose of new gene discovery. You will also work to further develop and automate these technologies. BS/MS with 5+ years of relevant experience. TZ-2393.

**BIOINFORMATICS**

**Scientist**
Innovative scientist with demonstrated expertise in the field of DNA and protein sequence analysis. You will be required to develop algorithms and software to extract maximal information on gene organization and function from large amounts of genomic and transcribed sequence. You will work closely with scientists in genomics and molecular and cellular biology in an integrated effort to explore the molecular mechanisms of important disease states. This role is pivotal to the success of the research programs. TZ-2793.

**Computer Scientist**
You will install and develop a sophisticated information network to handle the extensive needs of the genomic, automated sequencing and biology components of the research program. You will be expected to become an expert in the analysis of DNA sequence and protein sequence and structure and to work closely with scientists in these areas. You should have experience in UNIX and Macintosh-based systems and be flexible in your approach. TZ-2893.

Bioinformatics is a critical component of the Millennium approach.

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**Building 600E**
**Cambridge, MA 02139**
**FAX (617) 374-9379**

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POSITIONS OPEN


CELLULAR IMMUNOLOGIST: Applicants invited for NIH-funded position directing laboratory research on the regulatory aspects of a research, immunotherapy effort. Must work cooperatively with clinical scientists in progressive, immunotherapy laboratory. Experience in medical school appointment and graduate school teaching. Fully funded position and laboratory. Pay is commensurate with education and experience. Position will be filled in 1993. Send detailed curriculum vitae and position statement to: Phillip Pettman, M.D., and the Don and Sybil Harrington Cancer Center, 1500 Wallace Boulevard, Amarillo, TX 79106. Equal Opportunity/Affirmative Action Employer.

RESEARCH ANIMAL ETHOLOGIST, permanent position with the USDA-Agricultural Research Service, National Animal Disease Center. The position will be located in facilities of Purdue University’s Animal Sciences Department. Responsible for initiating and developing a research program directed toward understanding the relationships among physiological parameters, animal behavior, and well-being. Research would include identification of internal cognitive perceptions and development of indicators of well-being for food-producing animals. Ph.D. and knowledge of animal physiology are desirable. Salary range $40,298 to $56,623, depending on qualifications and experience. For position information contact: Dr. J. R. Wilcox, Telephone: 317-494-8074. For the vacancy announcement and application procedures contact: Beverly Webert, Telephone: 301-344-1921. Applications must be marked 3NO20 and postmarked by July 10, 1993. Incomplete applications will not be considered. ARS is an Equal Opportunity Employer.

IMMUNOLOGIST

The National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention, is seeking a Chief of the Physical Agents Effects Branch, Division of Biomedical and Behavioral Sciences, in Cincinnati, Ohio. The successful candidate will manage NIOSH’s principal research program addressing the health and safety consequences of occupational exposure to such physical agents as noise, radiation, vibration, and thermal factors. Candidate should have research expertise and publications in one or more of these areas as well as experience in research program development and management. The position is in the Career Civil Service, GS-14 or GS-15. Salary range is $50,657 to $66,389, depending on qualifications. Interested candidates should send an application or curriculum vitae to: Ms. Dorothy Surdick, NIOSH Personnel Office, 4676 Colombia Parkway, Cincinnati, OH 45226. CDC/NIOSH IS AN EQUAL OPPORTUNITY EMPLOYER AND OFFERS A SMOKE-FREE ENVIRONMENT.

POSITIONS WANTED

FACULTY POSITION WANTED: Extensive experience with animal models of HIV infection (primates, feline, and human) and research on the pathophysiology of HIV and evaluation of vaccine and antivirals. Experience with molecular biology techniques, histology at high and EM levels, also, cell culture and cell sorting. Box 33, Science, 133H 5th Street, N.W., Room 814, Washington, DC 20005.

ANNOUNCEMENTS

Third International Workshop on the Identification of Transcribed Sequences in the Human Genome, October 2-4, in New Orleans, Louisiana. Send Abstracts by July 1, 1993, to: Dr. Ute Hochrengwender Unit on Genomics, NIMH Building 10 Channel Drive, Rockville, MD 20892.

9000 Rockville Pike Bethesda, MD 20892

Additional information: Dr. K. Gardiner, Telephone: (301) 530-8415.

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Flow Cytometry Specialist

Candidate must have a BS degree in the Biological/Biophysical Sciences or equivalent experience, as well as 2 years experience with flow cytometry. A strong knowledge of computers is required and tissue culture experience is desirable.

At Amgen, our employees work in an environment that provides the freedom to manage their projects, regulate the quality of work and make decisions within company goals. And we back this freedom with a compensation and benefits package that reflects the level of our commitment. If you're interested in this position, please submit curriculum vitae, for confidential consideration, to: Amgen Inc., Staffing, Job Code OA-SC-JC-012, Amgen Center, Thousand Oaks, CA 91320-1789.

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Postdoctoral Research Associate Molecular Angiogenesis

The Medical Research Division of American Cyanamid Company is recognized internationally as a leader in the research and development of therapeutic compounds for the benefit of people the world over. Presently, the Protein Chemistry Department invites applications for a postdoctoral position in angiogenesis research. Current research focuses on molecular mechanisms of endothelial cell proliferation and capillary blood vessel formation (growth factors, inhibitors, receptors, signal transduction, regulatory enzymes). Emphasis is placed on a multidisciplinary approach to the detailed molecular investigation of proteins that are essential to angiogenesis and may be potential targets for drug development.

The position requires a Ph.D. or equivalent degree and a strong background in protein chemistry, molecular biology or cell biology/physiology. A desire for team work, superior technical skills, and a sense of excellence in performance are essential. Candidates with a track record in angiogenesis research will be preferred.

We are located at the 580-acre Lederle Laboratories campus of American Cyanamid Company in Rockland County, only 25 miles north of New York City. If you are interested, please send a CV and the names, addresses and telephone numbers of three references to: Personnel, Dept. PB, Lederle Laboratories, 401 N. Middletown Road, Pearl River, NY 10965. An Equal Opportunity Employer

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WORKSHOP

Molecular and Structural Biology of Tissue Repair Workshop

Lister Hill Auditorium, Bethesda, Maryland, November 1-2, 1993

The National Institute of General Medical Sciences (NIGMS), National Institutes of Health (NIH), is sponsoring a one- and a half day workshop entitled "Molecular and Structural Biology of Tissue Repair." The meeting will bring together structural biologists, including crystallographers, NMR spectroscopists and protein chemists; cell biologists; biomedical engineers; and surgeons from academia and the biotechnology industry, for the purpose of establishing a deeper understanding of the basic mechanisms involved in tissue repair. Topics to be covered will focus on the relationship between the high resolution structural studies of growth factors and other cytokines and the ultimate clinical applications. Some specific presentations will include the biology of growth factors; identification and cloning of relevant receptors; structural and biochemical studies on receptor/ligand interactions; and molecular studies of the transcription factors involved in regulating growth factor/cytokine expression and function.

For information, contact:
Ma. Linda Shida
Biophysics and Physiological Sciences Program
NIGMS, NIH
5333 Westbard Avenue
Room 907
Bethesda, MD 20892
Telephone (301) 594-7800
FAX (301) 594-7700.
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