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Treatment of Philadelphia Leukemia in Severe Combined Immunodeficient Mice by a Combination of Cyclophosphamide and bcr/ab1 Antisense Oligodeoxy-nucleotides. *Tomasz Skorski, Bruno Calabretta et al.*

Risk Factors for Lung Cancer and for Intervention Effects in CARET, the Beta-Carotene and Retinol Efficacy Trial. *Gilbert S. Omenn et al.*

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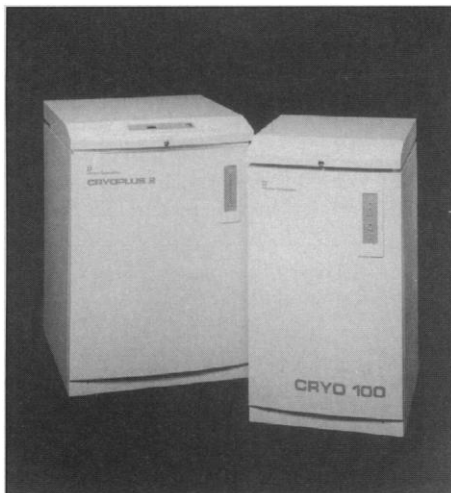
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The EasyjecT BASIC is an inexpensive electroporation system for transformation of *Escherichia coli* and other Gram-negative bac-

teria. The voltage and pulse parameters are preset; the user simply inserts the cuvette and pushes the start button. The EasyjecT PLUS is a more advanced design for the precise electroporation of mammalian, yeast, and bacterial cells. The microprocessor-controlled software allows easy programming, and a unique double-pulse system improves transformation efficiencies. **EquiBio.** For information call +44 (0) 1622 746300 or circle 145 on the reader service card.

Literature

Physiology Research Instruments 1997 is an 80-page catalog also featuring devices for pharmacology and neuroscience, including syringe pumps, micromanipulators, stereotaxic instruments, a hot glass bead dry sterilizer, and a data acquisition system. **Stoelting.** Circle 313. For information call 630-860-9700 or circle 146 on the reader service card.

pH and Plasticware Catalog 1997 features a complete line of pH meters, monitors, controllers, electrodes, pH strips, and accessories. It includes related instruments such as conductivity meters, oxygen meters, recorders, and combination meters. **Whatman Lab-Sales.** For information call 503-648-0762 or circle 147 on the reader service card.

MultiScreen Assay System brochure provides information on a 96-well filtration system designed to simplify all types of separations, including biochemical assays, nucleic acid purifications, and drug discovery techniques. The system is offered with a choice of membranes and plate materials for various applications. **Millipore.** For information call 508-478-2000 or circle 148 on the reader service card.

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An Evaluation of Artifact Calibration in the Fluke 5700A Multifunction Calibrator is an application note that addresses the question of how well artifact calibration stands up over time in real world situations. **Fluke.** For information call 206-347-6100 or circle 150 on the reader service card.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card and placing it in a mailbox. Postage is free.

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POSITIONS OPEN

DEPARTMENT HEAD DEPARTMENT OF PHYSICS The University of Illinois at Chicago

The Department of Physics at the University of Illinois at Chicago is seeking well qualified applicants for the position of **DEPARTMENT HEAD**. The Department has major experimental and theoretical research programs in elementary particle, condensed matter, nuclear and laser physics, and biophysics. The Department has 30 faculty and over 70 graduate students, as well as collaborative programs with Oak Ridge, Fermi, Brookhaven, and Argonne National Laboratories. UIC, located in the heart of Chicago, is a Research I University with 16000 undergraduate, 6000 graduate, and 2300 professional students.

The Department Head is chief administrative officer with responsibilities for the instructional programs of the Department; administrative, budgetary and promotion decisions; and for providing leadership in the development of research, teaching, and public service. The successful candidate will have an earned doctorate and be eligible for appointment at the rank of **FULL PROFESSOR**. A strong record in research, a demonstrated commitment to equality of opportunity, and substantial leadership and organizational skills are required. *Women and minority candidates are especially encouraged to apply.* The position is available August 21, 1997.

Applications should be received by March 31, 1997 to receive fullest consideration, although the search will proceed until the position is filled. Applications must include a full curriculum vitae and names, addresses and telephone numbers of four references. Applications and nominations should be sent to:

Dr. Pedro A. Montano
Search Committee for Department Head
Department of Physics, m/c 273
The University of Illinois at Chicago
845 West Taylor Street, #2236
Chicago, IL 60607-7059

UIC is an Affirmative Action/Equal Opportunity Employer.

DEPARTMENT CHAIR MICROBIOLOGY AND IMMUNOLOGY Morehouse School of Medicine, Atlanta

The Morehouse School of Medicine (MSM) seeks candidates for the position of **CHAIR**, Department of Microbiology and Immunology. Applicants should have a well recognized record of research achievement and current funding in an area of contemporary microbiology with relevance to medicine, dedication to quality and innovative educational programs, leadership skills, and experience in academic administration at the Department level. MSM (www.msm.edu) is a young and expanding institution dedicated to the training of underrepresented minorities in medicine and graduate biomedical sciences, and to excellence in research. Adequate laboratory space, start-up support, plus a full range of core and shared-use research facilities are available; a new research wing is under construction. The Chair will have the opportunity to recruit new faculty. *Underrepresented minorities and women are particularly encouraged to apply.* Please submit a curriculum vitae, statements of current and planned research, active and pending funding, and the names of three references by March 15, 1997 to: **Chair, Microbiology and Immunology Chair Search Committee, Office of the Dean, Morehouse School of Medicine, 720 Westview Drive, Atlanta, GA 30310. FAX: 404-752-1594.**

DIRECTOR Wisconsin Regional Primate Research Center

The University of Wisconsin-Madison announces a search for **DIRECTOR** of the Wisconsin Regional Primate Research Center. The Director will be expected to lead development of strong research programs involving University Faculty and Staff and outstanding visiting researchers in important biomedical areas in which the non-human primate offers unique opportunities for research relevant to the health of humans and other primates. The Director will also hold a tenured professorship in an appropriate academic department and will have the opportunity to continue his or her research and graduate student/postdoctoral training. Applicants should supply a full curriculum vitae, a statement of research interests, and names of three references no later than January 31, 1997. Address correspondence to: **Primate Director Search Committee, 333 Bascom Hall, University of Wisconsin-Madison, Madison, WI 53706.** Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality. *The University of Wisconsin-Madison is an Equal Opportunity Employer.*

POSITIONS OPEN

ISU COLLEGE OF PHARMACY

Idaho State University College of Pharmacy in Pocatello invites applications from, or nominations of, outstanding leaders and scholars for the position of **CHAIRPERSON** of the Department of Pharmaceutical Sciences. The successful candidate will have the following characteristics: Ph.D. in pharmaceutical sciences or related discipline; established administrative experience in budgeting and personnel management; record of leadership among peers; record of extramural funding; demonstrated commitment to professional pharmacy education; commitment to faculty development; and significant teaching experience, preferably in a pharmacy curriculum.

Pharmaceutical sciences is one of two Departments in the College. The College offers the Doctor of Pharmacy as its only professional degree, several post Doctor of Pharmacy residency and fellowship programs, and the M.S. and Ph.D. in pharmaceutical sciences and pharmacy administration.

Faculty offices and laboratories are housed in a recently remodeled pharmacy building that will be expanded in spring 1997. The Pocatello based program, along with affiliated research and graduate education programs, provides state-of-the-art research instrumentation. The College houses a GC/MS laboratory, complementing the campus NMR, electron microscopy, and molecular biology core facilities.

Pocatello, a Rocky Mountain community (three hour drive from Yellowstone, Grand Teton, Jackson, and Sun Valley) is ideally located for outdoor activities.

Interested individuals should submit a letter of interest, curriculum vitae, and the names, addresses, and telephone numbers of five references to: **James C. K. Lai, Ph.D., Chair, Search Committee, Campus Box 8334, ISU—College of Pharmacy, Pocatello, ID 83209. Email: lai@otc.isu.edu.**

The position is available July 1, 1997 and will remain open until a suitable candidate is identified. Applications will be reviewed beginning February 1, 1997. *Idaho State University is an Equal Opportunity/Affirmative Action Employer.*

DIRECTOR OFFICE OF RESEARCH Morehouse School of Medicine, Atlanta

The Morehouse School of Medicine (MSM) seeks candidates for the position of **DIRECTOR** of the Office of Research within the Office of the Dean and Senior Vice President for Academic Affairs. The purpose of this newly created office is to foster the further development of basic biomedical and clinical research by faculty. The ideal candidate should be an accomplished scientist with a record of research achievement and support, with experience in research program development and research administration in a biomedical institution. Knowledge of the practices, policies and procedures of major funding agencies, and the application of the tools of contemporary information technology to support research development are important. The Office of Research will work in synergy with the existing Office of Sponsored Programs. MSM (www.msm.edu) is a young and expanding institution dedicated to the training of underrepresented minorities in medicine and biomedical sciences, and to excellence in research. Research facilities are state-of-the-art; current extramural support of faculty research is good. *Underrepresented minorities and women are particularly encouraged to apply.* Please submit a curriculum vitae, statement of experience relevant to the needs of this position, and the names of three references by March 15, 1997, to: **Chair, Office of Research Search Committee, Office of the Dean, Morehouse School of Medicine, 720 Westview Drive, Atlanta, GA 30310. FAX: 404-752-1594.**

Columbia University seeks an **ASSISTANT PROFESSOR** in the Department of Psychology in the area of cognitive neuroscience, broadly defined. The appointment is to begin July 1, 1998. Candidates should provide evidence of excellence in research and a strong commitment to both graduate and undergraduate education. Of particular interest are candidates who can contribute to other areas of strength in the Department. Applicants should submit their curriculum vitae, copies of relevant papers, and arrange to have three letters of reference sent to: **Search Committee, Cognitive Neuroscience, Department of Psychology, Columbia University, 1190 Amsterdam Avenue—MC5502, New York, NY 10027.** Applications will be considered beginning March 1, 1997 and the search will continue until the position is filled. *Applications from minorities and women are encouraged. Columbia University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITIONS SCHOOL OF EARTH AND ATMOSPHERIC SCIENCES Georgia Institute of Technology

The Georgia Institute of Technology invites applications and nominations for up to five tenure-track **FACULTY POSITIONS** in geophysics, geochemistry, atmospheric chemistry and atmospheric dynamics. Applicants must have a Ph.D. and be quantitative geoscientists with broad interests in earth systems science. Successful candidates will develop strong independent research programs and participate in both the graduate and undergraduate education programs. These positions will become available in 1997-98 and 1998-99. Candidate evaluations will begin in late January 1997 and continue until the positions are filled. We are searching for candidates at all levels in the following areas: **GEOPHYSICS**—global seismology, geodynamics and other areas of geophysics that complement our existing programs; **GEOCHEMISTRY**—chemical hydrology of surficial aquatic systems, soils and groundwaters; theoretical geochemistry and mineralogy; and the record of earth surface processes; **EXPERIMENTAL ATMOSPHERIC CHEMISTRY**—especially individuals involved in the development and application of advanced technology instrumentation for airborne field measurements of tropospheric trace gases and aerosols to support current local, regional and global modeling efforts; **ATMOSPHERIC DYNAMICS, CLIMATE, PALEOCLIMATE**—especially candidates involved with upper atmospheric modeling of trace gases, radiation balances and climate dynamics. Applicants should submit a résumé, selected reprints, a statement of professional research and teaching goals, plus the names, addresses, Email and telephone numbers of three persons whom we may contact for references to: **Philip N. Froelich, Chair, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA.** View our web site at: <http://gatech.edu/eas/eas.html>. Georgia Tech is an Equal Opportunity/Affirmative Action Employer and a Unit of the University System of Georgia.

Applications and nominations are invited for the Gordon and Margaret Bailey **ENDOWED CHAIR** in Environmental Horticulture, a 12-month appointment beginning 1 July 1997 or as soon thereafter as possible, to be filled at the level of **ASSOCIATE** or **FULL PROFESSOR** with tenure. The Chair holder will direct a research program in environmental horticulture, addressing research goals such as woody plant and tree fruit production, culture, breeding, and over-wintering of woody plants. The Bailey Professor will be active in graduate education and will teach at least one course at the undergraduate level. S/he will engage in outreach activities to expand and strengthen interaction with the nursery industry. Applications from outstanding mid-career scientists are especially encouraged. To apply, submit a curriculum vitae, including a full list of publications; names and addresses of four references; and a brief statement of teaching, research, and public service interests pertinent to the Bailey Chair to: **John Carter, Chairman, Bailey Professorship Search Committee, Department of Horticultural Science, 305 Alderman Hall, University of Minnesota, St. Paul, MN 55108.** Nominations should be directed to the same address. Review of applications will begin 1 February 1997 and continue until the position is filled. *The University of Minnesota is an Equal Opportunity Educator and Employer.*

TENURE-TRACK ASSISTANT PROFESSORSHIPS

The Joseph P. Kennedy, Jr. Mental Retardation Research Center in the Department of Pediatrics at the University of Chicago is accepting applications for two tenure-track faculty appointments at the **ASSISTANT PROFESSOR** level. A doctorate and evidence of ability to carry out independent research in either 1) developmental neurobiology or 2) mammalian molecular genetics is required. Successful candidates will be expected to develop a strong research program supported by outside funding and to participate in group-oriented funding opportunities. Faculty will have the opportunity to train students through degree-granting committees and to participate in teaching at both the undergraduate and graduate levels.

To apply, send letters of application, curriculum vitae, statement of research accomplishments and interests, and the names and addresses of three references to: **Director, c/o Ms. J. Corey, Department of Pediatrics, MC 5058, 5841 South Maryland Avenue, University of Chicago, Chicago, IL 60637.** *The University of Chicago is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

The Experimental Immunology Branch (EIB), Division of Basic Sciences, of the National Cancer Institute, National Institutes of Health, Bethesda, Maryland, invites applications for a **TENURE-TRACK POSITION** in immunology. The applicant should have a Ph.D., M.D., or equivalent degree, a strong record of scientific accomplishments, and the potential to establish an independent research program in molecular or cellular immunology. The position provides salary and full funding to establish an independent research program, including laboratory space, equipment, budget, technical personnel, and support for fellows. *U.S. citizenship or eligible resident alien status is required.* Salary will be commensurate with education and experience. The EIB, one of the premier immunology groups, consists of 11 Principal Investigators: **Alfred Singer, Ronald Gress, Pierre Henkart, Richard Hodes, Michael Kuehn, Paul Roche, David Segal, Susan Sharrow, Stephen Shaw, Gene Shearer, Dinah Singer.** Active research covers a wide range of areas of immunology including: thymic education and T cell differentiation, mechanisms of cell death and cell adhesion, HIV-induced immunodeficiency, transplantation biology, cell biology, antigen presentation, receptor assembly and transport, signal transduction, B lymphocyte immunobiology, and regulation of gene expression. Scientific interactions, which are encouraged and occur extensively among EIB members, are a particularly attractive element in this position. A more detailed description of the EIB can be found at its website: www.nci.nih.gov/intra/EIB/EIBPAGE.htm. Applicants should send a curriculum vitae, outline of a proposed research program (no more than two pages), and three letters of recommendation to: **Ms. Karen Valpey, Experimental Immunology Branch, Building 10, Room 4B-17, NIH, Bethesda, MD 20892.** Applications must be received by March 1, 1997. *The National Cancer Institute is an Equal Opportunity Employer. Selection for this position will be based solely on merit.*

BOTANIST

Villanova University invites applications for an entry-level **TENURE-TRACK POSITION** in Plant Biology to teach two undergraduate courses with laboratory in vascular plant biology and a specialized Master's level course. Occasional participation in a team-taught general biology course is expected. Teaching load is three to four courses per year, plus direction of independent study and thesis research. The candidate will be expected to develop an independent research program in plant biology that involves undergraduate and Master's level students, to seek extramural research funding, and to participate in Departmental and University activities. A Ph.D. and postdoctoral experience are required. Applicants with interests in plant biology at the organismal level are preferred. Submit curriculum vitae, statements of teaching philosophy and research interests/goals, original undergraduate and graduate transcripts, three letters of recommendation, a prospective syllabus for a 14-week sophomore level introduction to vascular plant biology (three hours of lecture, three hours of lab per week), and a description of courses that could be taught at the junior/senior and graduate levels. Send materials to: **Plant Biologist Search Committee, Department of Biology, Villanova University, Villanova, PA 19085-1699.** Applications will be reviewed from January 27, 1997 to February 14, 1997 or until the position is filled. Villanova University is a Roman Catholic University sponsored by the Augustinian order. *An Affirmative Action/Equal Opportunity Employer, Villanova seeks a diverse faculty that understands and is committed to the University's Catholic character and Augustinian traditions.* Candidates must be committed to scholarly research and publication, service, and above all, excellent undergraduate teaching.

FACULTY POSITION UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Physiology and Biophysics invites applications for a faculty position at the **PROFESSOR** level. We are seeking candidates who would establish a major research effort in proteins and crystallography, and maintain an x-ray diffraction facility. The successful candidate will have a significant track record of solving protein structures and interest in collaborations with existing research projects in the Department and on the UCI campus. The position will involve teaching both medical students and graduate students. We will accept applications until March 1, 1997. Send a curriculum vitae, a research description, and letters from three references to: **Janos K. Lanyi, Chair, Department of Physiology and Biophysics, University of California, Irvine, CA 92697-4560.** *University of California is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.*

POSITIONS OPEN

CHAIRPERSON DEPARTMENT OF GENETICS

Yale University School of Medicine is seeking an outstanding scientist to head the Department of Genetics, which has a long history of excellence in both basic genetic research and clinical genetics. Research interests of the faculty include studies on the structure, function, and expression of cellular and viral genes; human genetics; genetic control of cell growth and differentiation; DNA replication, recombination, and mutagenesis; and developmental genetics in a variety of systems. The Department has a graduate program leading to the Ph.D. degree. It also provides clinical training and clinical genetics services, and operates a number of clinical laboratories. The successful candidate will provide leadership in defining the future direction of the Department and in maintaining the vigor of its research, clinical, and teaching programs.

Applications are to be sent to: **Richard A. Flavell, Ph.D., Genetics Chair Search Committee, c/o Terrill S. Moorehouse, Administrator, Section of Immunobiology, Yale School of Medicine, Room TE404, P.O. Box 208011, New Haven, CT 06520-8011.** Application deadline: April 15, 1997.

Yale University is an Affirmative Action/Equal Opportunity Employer. Women and minority group members are encouraged to apply.

JUNIOR FACULTY POSITION PATHOLOGY RESEARCH LABORATORY Massachusetts General Hospital Harvard Medical School

The Department of Pathology at the Massachusetts General Hospital is seeking applicants with an interest in immunology or cancer for a staff position within the Division of Pathology Research located in the Charlestown Navy Yard research building. The position will carry an appointment as **ASSISTANT PROFESSOR** of Pathology at Harvard Medical School. Candidates must hold an M.D., or a Ph.D., have at least three years of postdoctoral experience, and have demonstrated excellence in fundamental biomedical research. Candidates with a background in pathology who wish to pursue a career in basic research are encouraged to apply.

Candidates are expected to participate in the teaching activities of the Department for medical students, graduate students and postdoctoral fellows. Laboratory space is available for this recruitment which is scheduled for summer/fall 1997.

Applicants should submit, as soon as possible, but prior to March 15, 1997, curriculum vitae, bibliography, a brief description of research interests, and the names of three referees to:

**Ivan Stamenkovic, M.D.
Department of Pathology
Massachusetts General Hospital
CNY-7, 149 13th Street
Charlestown Navy Yard
Boston, MA 02129**

Harvard University is an Equal Opportunity/Affirmative Action Employer and encourages the application of women and minorities.

CELL BIOLOGIST/PHYSIOLOGIST

Le Moyne College, a small liberal arts college in the Jesuit tradition, seeks to fill a one year (sabbatical replacement) position as **VISITING ASSISTANT PROFESSOR** beginning fall 1997. Successful candidates must have a Ph.D. as well as teaching experience at the undergraduate level. Responsibilities will include teaching a required sophomore-level course and lab in cell and molecular biology, an upper-level mammalian physiology course (with laboratory), and a non-major's course. Send curriculum vitae and arrange to have three letters of reference sent by 15 February 1997 to: **Lynn McMartin, Director of Human Resources, Le Moyne College, Syracuse, NY 13214-1399.** *Le Moyne College is an Affirmative Action/Equal Opportunity Employer. Women, persons of color, and Jesuits are encouraged to apply.*

The Cardiology Division, Department of Medicine at Columbia University, College of Physicians and Surgeons, is seeking full-time, tenure-track research physiologists or biochemists at the **ASSISTANT PROFESSOR** level. Candidates should have experience in biochemical correlates of contractile failure including molecular techniques, a history of publication, and grant support. Candidates should possess a Ph.D. or M.D. Send curriculum vitae to: **Steven Bergmann, M.D., Ph.D., Director, Nuclear Cardiology, PH 10-Stem 405, Columbia University, 630 West 168th Street, New York, NY 10032.** *We take Affirmative Action toward Equal Employment Opportunity.*

BUILD ON OUR
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SOFTWARE ENGINEERS/ BIOINFORMATICS

The Mouse Genome Informatics group At The Jackson Laboratory has several open software engineering positions. Our group develops biological databases of the laboratory mouse and software tools used by scientists worldwide who need to work with this information. Our Web site (<http://www.informatics.jax.org>) provides access to comprehensive, high quality, experimental data on the structure of the mouse genome, the time and tissue of mouse gene expression, and detailed descriptions of normal and mutant phenotypes.

Applicants must be energetic, imaginative, and ready to participate in a highly interdisciplinary environment combining biology and computer science. We are seeking entry-and intermediate-level applicants possessing skills in one or more of the following areas: Web site design and implementation (HTML, cgi, Java), programming (C++, Perl, Python), and relational database (Sybase). BS in Computer Science required. Strong interest in biology preferred.

DATABASE USER SUPPORT: BIOLOGIST

A professional position is available as a member of the User Support Staff associated with the Mouse Genome Informatics Group at The Jackson Laboratory. This position supports developing mammalian genetic, expression, and biological databases and interfaces for the scientific community. The individual in this position will be responsible for responding to user queries that are biological in nature via email, phone, and correspondence, instructing users in software installation, demonstrating software at conferences, and helping users with electronic data submission. In addition, he/she will participate in writing promotional and training material and in developing on-and off-line tutorials. It is expected that this individual will develop excellent familiarity with the biological databases maintained at The Jackson Laboratory and will be facile with other online database resources to aid biologists in searching for and analyzing information. Applicants should have demonstrated people skills and good organizational abilities. M.S. in genetics or developmental, cellular or molecular biology; knowledge of mammalian genetics a plus.

DATABASE INFORMATICS: BIOLOGISTS

Professional positions are available in the Mouse Genome Informatics Program at The Jackson Laboratory initiating the development of a Gene Expression Resource and a Tumor Biology Database for the laboratory mouse. The successful applicants will be primarily responsible for data acquisition and database maintenance, including literature searching, evaluating and analyzing data to be incorporated into the databases and interacting with research laboratories to facilitate electronic data contributions. In addition, they will participate in database and interface design work, through input into database content and display concepts. Applicants should be versed in developmental, cellular or molecular biology. Knowledge of mammalian genetics a plus. Other desirable attributes include writing/communication skills and experience using computers. M. S. degree in Life Sciences or equivalent experience required.

The Jackson Laboratory is one of the world's foremost centers for mammalian genetics research. Located in Bar Harbor Maine, the lab is adjacent to Acadia National Park. Mountains, ocean, forests, lakes, and trails are all within walking distance. If you love high tech challenges but you're looking for a more natural environment, this could be the opportunity you've been searching for.



The
Jackson
Laboratory

Applications should be addressed to:
Human Resources, The Jackson Laboratory,
600 Main Street, Bar Harbor, Maine 04609.
Email: jobs@jax.org.

*The Jackson Laboratory is an Equal Opportunity/
Affirmative Action Employer*



WHERE "IMPOSSIBLE" IS UNACCEPTABLE.

The goals we have set and the products we are developing are simply too important to be changed, stopped, or delayed by words like "improbable," "unrealistic," or even "impossible."

If you see the impossible as a challenge to overcome ... rather than a reality to accept ... then we invite you to join us in one of these positions.

BIOINFORMATICS

Computer Scientist Human Genetics & Genetic Analysis

Put your knowledge of signal and image processing algorithms for noise reduction and pattern matching to excellent use in the development of state-of-the-art genetic analysis and image processing tools. To qualify, you must have a Ph.D. in Computer Science, or an MS with 5 - 10 years of post-graduate experience. Experience with OO design and development (preferably Smalltalk and Gemstone) and RDB technology is essential, as is the proven ability to deliver maintainable, production-quality solutions. Edge-detection, anti-aliasing, and neural-net experience is a plus. **Job Code: 97-SCSJ**

LEAD Senior Computer Scientist Computational Methods R & D

We seek a Ph.D. with a demonstrated knowledge of current methods and tools, as well as experience developing algorithms in industry, to lead a group developing methods for assembly and analysis of genomic sequence-related laboratory information. At least 5 years of post-doctoral experience, plus training in Computer Science and applied math are also required. **Job Code: 97-SLRDJ**

Computer Scientist Computational Methods R & D

You will be responsible for the design, evaluation, development, and implementation of novel algorithms for analysis of DNA and protein sequences, as well as for the interpretation of related laboratory data. To qualify, you must have a Ph.D. in CS/EE, genetics, or applied math and/or an MS with at least 5 years of post-graduate experience. Fluency in C/C++, LISP, or Smalltalk is required, as is the biological and mathematical background needed to completely assess alternative computational methods in a practical context. Experience with RDB/OODB is helpful. **Job Code: 97-SRDJ**

All candidates must have outstanding communication skills, coupled with an interest and the ability to work in an interdisciplinary team environment.

Get into the action today and enjoy the rewards of a collaborative environment, the challenge of progressive science, the incentive of stock ownership, opportunities for career growth and a generous compensation package. Please send/fax/e-mail your resume to Human Resources, Job Code __, Millennium Pharmaceuticals, Inc., 640 Memorial Drive Cambridge, MA 02139-4815; Fax: (617)225-0884; E-mail: hannon@mpi.com.



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POSITIONS OPEN

FACULTY POSITIONS Center for Experimental Therapeutics and Reperfusion Injury Brigham and Women's Hospital/ Harvard Medical School

Applications are invited for two faculty positions at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR** as part of an expansion of the research program in the Center for Experimental Therapeutics and Reperfusion Injury in the Department of Anesthesia at Brigham and Women's Hospital. Candidates should have evidence of independent research and have the capability of performing research in an academic setting in the areas of molecular pharmacology, cell biology, signal transduction, molecular immunology, and physiological chemistry as they relate to ischemia and reperfusion injury.

The positions are within the newly established Center. The successful candidates will join three other principal investigators in established research space. The Anesthesia Research Laboratories are comprised of 15 independent investigators working in molecular neuropharmacology, pain research, muscle mechanism, and electrophysiology.

Academic rank will be commensurate with experience and status.

Women and minority candidates are especially encouraged to apply.

Applicants should send a letter describing their interests, curriculum vitae, and the names of three references to:

Prof. Charles N. Serhan
Director, Center for Experimental Therapeutics
and Reperfusion Injury
Brigham and Women's Hospital
Harvard Medical School
75 Francis Street
Boston, MA 02115

Harvard Medical School and Brigham and Women's Hospital are Equal Opportunity/Affirmative Action Employers. Women and minorities are encouraged to apply.

ETHNOBOTANIST

The Department of Botany, College of Natural Sciences, invites applicants for an **ASSISTANT PROFESSOR**, full-time, tenure-track, nine-month position to begin August 1, 1997, pending position clearance and availability of funds. The department seeks an individual who will develop an outstanding research program and provide leadership in ethnobotany of Hawaiian or Pacific plant species; possible specializations in food, fiber, natural products or other ethnobotanical uses. Primary teaching responsibilities will include an introductory course in the undergraduate ethnobotany curriculum, a lower division course in botany or biology, and an advanced course in the area of his/her research specialization. Minimum qualifications are a Ph.D. in botany, an appropriate field of biological science or its equivalent; demonstrated teaching ability; demonstrated scholarly achievements. Desirable qualifications include postgraduate training and field-oriented research in Pacific or tropical ethnobotany, and the ability to operate in a multicultural environment. Minimum annual salary: \$34,644 (salary negotiable based on experience and qualifications). Submit curriculum vitae, statements of teaching philosophy and research interests, reprints of up to three publications, and three or more references including mail and Email addresses and telephone numbers to: Chairperson, Department of Botany, 3190 Maile Way, University of Hawai'i at Manoa, Honolulu, Hawai'i 96822-2279. Deadline for applications is February 28, 1997. Inquiries may be made to: Email: botany@hawaii.edu or FAX: 808-956-3923. *The University of Hawai'i at Manoa is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are strongly encouraged to apply.*

CHAIR AND ASSISTANT/ASSOCIATE PROFESSOR PHARMACOGENOSY

The Department of Pharmacogenosy at the University of Mississippi is seeking pharmacogenosists, natural products chemists, or biologists to fill the positions of **CHAIR, PROFESSOR, and ASSISTANT/ASSOCIATE PROFESSOR**. For more information see the announcement at our web site: <http://www.olemiss.edu/depts/pharmacogenosy> or contact: Administrative Manager, School of Pharmacy Business Office, NCDNP Room 1026, The University of Mississippi, University, MS 38677.

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

POSITIONS OPEN

ST. CLOUD STATE UNIVERSITY ENVIRONMENTAL STUDIES

St. Cloud State University invites applications for a tenure-track, **ASSISTANT PROFESSOR** as a teacher of environmental studies within the Department of Environmental and Technological Studies. Appointment begins September 2, 1997. Salary is a maximum of \$38,861. Doctorate in environmental and/or technological studies or a related area is required. An appreciation of the industry-environment interface is being sought. Prior successful teaching and/or industrial experience is required. Secondary expertise in a technical area of production, transportation/energy, or communications is desired. The successful candidate will teach introductory and advanced courses in environmental studies. These courses will include but not be limited to such content as wetlands, soils, toxicology, and instrumentation. Teach graduate (Master's) level courses. Provide significant curriculum development for environmental studies and manage an environmental studies laboratory. Student advising and participation in Department and University committees will be expected. A professional development program, including research, is required for tenure and promotion. To apply, submit a letter of application, curriculum vitae, transcripts (copies acceptable for initial screening), and three to five current letters of professional recommendation, by March 31, 1997. Materials received after the deadline date are not guaranteed consideration. Submit application materials to:

Dr. William J. Lacroix
Department of Environmental &
Technological Studies
St. Cloud State University, HH 216
720 4th Avenue South
St. Cloud, MN 56301-4498

St. Cloud State University is an Affirmative Action/Equal Opportunity Employer.

FRESHWATER VERTEBRATE BIOLOGIST: The newly formed Department of Biological Sciences, University of Maine, seeks applicants for a faculty position in the biology of vertebrates, especially fishes, of freshwater environments. The position is a tenure-track, academic-year position at the **ASSISTANT PROFESSOR** level, and involves joint appointment in the Maine Agricultural and Forest Experiment Station. Research areas may include, but are not confined to, population or behavioral ecology, predator-prey interactions, or analysis of food webs. We are particularly interested in candidates whose research will enhance the fisheries programs in the Department and in the Maine Cooperative Fish and Wildlife Research Unit. Ph.D. is required, teaching and postdoctoral experiences are preferred, and a strong commitment to undergraduate and graduate education is expected. Teaching load will include an undergraduate course in vertebrate biology each year, and, on a rotating basis, an advanced course in ichthyology, limnology, fish population ecology, or a related specialty, and periodic participation in an introductory course in biology. Duties will also include assisting in the curation of a major collection of vertebrates used in teaching and research. Review of applications will begin 15 February 1997 and will continue until a suitable candidate is found. Applicants should submit curriculum vitae, statement of interests, representative published papers, and names, addresses and telephone numbers or Email addresses of three referees to: Chairperson, Vertebrate Biology Search, Department of Zoology, University of Maine, 5751 Murray Hall, Orono, ME 04469-5751. *An Equal Opportunity/Affirmative Action Employer. We strongly encourage women and minorities to apply.*

The Department of Biology at Northern Michigan University invites applications for a tenure-earning position at the **ASSISTANT/ASSOCIATE PROFESSOR** level beginning August 1997. The candidate should have a Ph.D. with expertise in plant ecology. Duties include teaching introductory and specialty courses both at undergraduate and Master's levels in botany and ecology, and supervision of undergraduate and Master's level research. Applications will be received until the position is filled. Selected applicants will be interviewed after March 10, 1997. Send letter of application, résumé, transcripts and names, addresses and telephone numbers of three references to: **Dr. Thomas G. Froiland, Chair, Department of Biology, 401 Presque Isle Avenue, Northern Michigan University, Marquette, MI 49855-5341; Telephone: 906-227-2310.** Information about the NMU Biology Department can be obtained at the World Wide Web address: <http://www.nmu.edu/biology/>. *NMU is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

CELLULAR PHYSIOLOGY-NEUROSCIENCE ASSISTANT OR ASSOCIATE PROFESSOR

Applications are invited for an **ASSISTANT PROFESSOR**, tenure-track or **ASSOCIATE PROFESSOR**, tenured position in the Department of Physiology at the University of Minnesota in the field of cellular physiology/neuroscience. The position is not restricted to a specific subdiscipline. We encourage applications from individuals who employ cellular and molecular approaches in studying cell functions and mechanisms in any of a wide variety of areas, including calcium signaling, second messenger systems, receptor physiology and ion channel. The successful applicant will be expected to conduct an innovative, independent research program and to participate in teaching and graduate education in the Department of Physiology and in the interdisciplinary Neuroscience Graduate Program. Applicants must have a Ph.D., M.D. or equivalent degree, with a minimum of two years of postdoctoral training. Late date for receipt of applications is 1 March 1997. Send curriculum vitae, one page description of research interests, and three letters of reference to:

Dr. Hon Cheung Lee
c/o Nancy Sacco
Department of Physiology
6-255 Millard Hall
435 Delaware Street S.E.
University of Minnesota
Minneapolis, MN 55455

The University of Minnesota is an Equal Opportunity Educator and Employer.

EXPERIMENTAL MEDICINE ASSISTANT/ASSOCIATE PROFESSOR

The University of Tennessee, College of Veterinary Medicine seeks candidates for two **TENURE-TRACK POSITIONS** with emphasis on research (80%), and includes professional and graduate teaching (20%). Candidates experienced in applying molecular and cell biology to disease research and capable of maintaining a rigorous extramurally funded program are being sought. Priority will be given to candidates with a strong research record that complements one of the existing areas of college strength in immunoinflammation, host defense, carcinogenesis, experimental therapeutics, growth factors, molecular genetics, infectious diseases and population medicine. Candidates must have the Ph.D. degree; the D.V.M. degree and specific postdoctoral research experience are preferred. Salary and appointment level shall be commensurate with experience and training. One position is in the Department of Animal Science and one is in the Department of Comparative Medicine. Applications will be reviewed as received; the earliest starting date is July 1, 1997. Please send a curriculum vitae, statement of career goals, reprints of three recent publications, summary of funding history, and names of three referees to: **Dr. Leon Potgieter, Department of Comparative Medicine, College of Veterinary Medicine, University of Tennessee, Knoxville, TN 37901-1071. Telephone: 423-974-5575.** *The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title IX/Title IX/Section 504/ADA/Age Discrimination in Employment Act Employer.*

ASSISTANT PROFESSOR. The Horticultural Sciences Department at the University of Florida is seeking qualified candidates for a tenure-track 50% teaching and 50% research position. The successful candidate will have a major role in the departmental teaching program with responsibility for at least two undergraduate courses, such as general horticulture and world's vegetables. The appointee will be expected to advise undergraduate students and be involved in undergraduate activities. Development of a graduate level course in their area of expertise will also be encouraged. The successful candidate will be expected to develop an active research program in a horticulturally-related area, with emphasis in plant physiology. Candidates must be able to attract extramural funding for their research program. Candidates must hold a Ph.D. degree in the plant sciences, such as botany, horticulture, or plant physiology. Demonstrated ability in both oral and written communications is essential. Applicants should submit a letter of application including a statement of interests and career goals, curriculum vitae, transcripts, and three letters of recommendation to: **Rebecca L. Darnell, Head of Search and Screen Committee, Horticultural Sciences Department, P.O. Box 110690, University of Florida, Gainesville, FL 32611-0690.** Deadline for receipt is March 31, 1997.

KUWAIT UNIVERSITY

Faculty of Science

Kuwait

The Faculty of Science of Kuwait University seeks qualified candidates with a strong commitment to high quality teaching and research for appointment in the following departments:

1. *Mathematics and Computer Science*

Professor, Associate Professor, or Assistant Professor in

Computer Science: All computer science specializations particularly Data Base Theoretical Computer Science, Computer Graphics, Networks, Architecture

Mathematics: All mathematical specializations, particularly Complex Analysis, Real Analysis, Number Theory

2. *Geology*

Professor, Associate Professor, or Assistant Professor in Geomorphology, Petroleum Geology (Reservoir Geology)

3. *Statistics & Operations Research*

Professor, Associate Professor, or Assistant Professor in Statistics or Operations Research

4. *Physics*

Laser Physics and Applications, Atomic and Molecular Physics, Theoretical Physics, Environmental Physics, Digital Electronics and Computers (Ph.D. in Electronics and Communication)

General Requirements

- Ph.D. or its equivalent in the required area
- Research experience and publications
- University teaching experience
- Excellent knowledge of English

Benefits

- Tax free salary: Approximate salary ranges: Professor (KD 1070 - 1230 monthly); Associate Professor (KD 875 - 1035 monthly); Assistant Professor (KD 680 - 840 monthly) depending upon years of experience and number of accompanying dependents (spouse and children under 18). (1 KD equals \$3.5 approx.)
- Housing allowance of KD 450 for married, KD 350 for unmarried; furniture allowance of KD 4500. Furnished University housing may be provided depending on availability.
- Fringe benefits include annual air tickets, free National Health Medical Care, paid mid-term holidays, summer vacation and end-of-service gratuity.
- Excellent academic environment

Applications

Applications and Conditions of Service may be obtained from:

Kuwait University Office
3500 International Dr. NW
Washington, D.C. 20008
Tel: 202-363-8055

Applications must be accompanied by an English translation of all documents in other languages together with passport photocopies—of self and accompanying dependents—of pages containing photograph, personal data, other persons on the same passport, place and date of issue, and expiration date; and authenticated copies of transcripts.

Appointment to the position of Assistant Professor requires a very good performance in the B.Sc. with minimum GPA 3 points out of 4.

Applications should be sent by express mail/courier service to:

The Dean, Faculty of Science
Kuwait University
P.O. Box 5969
Safat 13060
Kuwait

For further inquiries use **Fax: (965) 483-6127** or **email: NOURIA@KUC01.KUNIV.EDU.KW**

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR AUDITORY NEUROBIOLOGY University of Florida College of Medicine

The Departments of Neuroscience and Otolaryngology, in conjunction with the University of Florida Brain Institute, invite applications for a tenure-track **FACULTY** position for individuals having a Ph.D. and/or M.D. degree. The position is in part supported by the Lucille P. Markey Charitable Trust. The successful candidate will be expected to develop an independent and interactive research program and contribute to the teaching of professional and graduate students. Applicants with demonstrated productivity and a strong research focus in the central auditory system will be considered. Interests in plasticity and rehabilitation following auditory deprivation are preferred. Collaboration on clinically oriented projects (e.g., the cochlear implant program) will be encouraged. Procurement of external funding will be expected. The position offers a competitive salary and excellent research facilities and start-up package. Applicants should send their curriculum vitae, a brief description of research interests, and three letters of recommendation to: **Dr. Charles Vierck, Chair, Search Committee for the Markey Faculty Scholars Program, Department of Neuroscience, Box 100244, University of Florida, Gainesville, FL 32610-0244.** Application deadline is February 20, 1997, with a start date on or after July 1, 1997. *The University of Florida is an Equal Opportunity Employer, and minorities and women are especially encouraged to apply.*

FACULTY POSITION DEVELOPMENTAL BIOLOGY OR NEUROBIOLOGY Lake Forest College

A continuing appointment as **ASSISTANT PROFESSOR** is anticipated (subject to final administrative approval) beginning August 1997 for a highly-qualified Ph.D. interested in teaching and conducting research with undergraduates in a liberal arts environment. Teaching may include upper level courses in developmental biology and neurobiology, freshman or senior seminars, and research methods courses within an innovative curriculum. Research plans should engage undergraduates in publishable investigations of current questions in developmental biology or neurobiology. Modern research facilities and start-up funds are available. Postdoctoral experience is preferred. Further information about the department is available at: <http://www.lfc.edu/biology>. A letter stating teaching and research plans, curriculum vitae, and three letters of reference should be sent by February 7, 1997 to: **Dr. David W. Towle, Chairperson, Department of Biology, Lake Forest College, Lake Forest, IL 60045.** *Applications from women and minorities are actively encouraged.*

YALE UNIVERSITY TENURED POSITION IN HIGH ENERGY ASTROPHYSICS Department of Astronomy

The Department of Astronomy at Yale University announces a faculty search at the tenure (**ASSOCIATE OR FULL PROFESSOR**) level in the field of high energy astrophysics. Our primary goal is the appointment of a leader in the study of galactic and extragalactic sources of high energy photons. We especially encourage applications from candidates who would also make use of optical facilities available to Yale such as the 3.5m WIYN telescope located at Kitt Peak in Arizona. Applications (including the names of at least three references) should be sent to: **Professor Sabatino Sofia, Chairman, Department of Astronomy, Yale University, P.O. Box 208101, New Haven, CT 06520-8101,** to be received by March 1, 1997. *Yale is an Equal Opportunity/Affirmative Action Employer.*

BASIC SCIENCE

Applications are invited for full-time tenure-track and part-time non-tenure-track positions at the levels of **ASSISTANT, ASSOCIATE, and FULL PROFESSOR** for the disciplines of anatomy, biochemistry, microbiology, pathology, pharmacology and physiology. We are seeking committed educators to join a new basic science faculty at our recently opened Arizona College of Osteopathic Medicine. Research is encouraged at all levels. Submit curriculum vitae and a list of three references to: **Ross Kosinski, Ph.D., Pre-clinical Director, Midwestern University, 19555 North 59th Avenue, Glendale, AZ 85308.** *Midwestern University is an Equal Opportunity Employer.*

POSITIONS OPEN

MOLECULAR GENETICIST CHILDREN'S RESEARCH INSTITUTE CHILDREN'S NATIONAL MEDICAL CENTER

Applications are invited for an **ASSISTANT or ASSOCIATE PROFESSOR** position in the Center for Molecular Mechanisms of Diseases, CRI and Department of Pediatrics, George Washington University. Qualifications include Ph.D. and/or M.D., proven record or outstanding promise of research accomplishment and funding, and experience in molecular genetics—gene regulation/expression in biological processes, pediatric-related diseases, organogenesis or development. Specific areas of interest are inflammation, immunology, airway diseases, congenital heart diseases. Competitive salary/lab support package.

Curriculum vitae, short summary of research plans, and the names and address of three references should be sent to: **Mary C. Rose, Ph.D., Director, Center for Molecular Mechanisms of Disease Research, CRI, CNMC, 111 Michigan Avenue N.W., Washington, DC 20010.**

Drug testing/background investigation conducted. *Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.*

FACULTY POSITIONS MOLECULAR CARDIOLOGY

The Division of Cardiology at the Cornell University Medical College seeks highly qualified applicants for tenure-track positions. These appointments will be made at the **ASSISTANT/ASSOCIATE PROFESSOR** level. The positions available include but are not limited to human genetics, vascular biology, gene therapy, myocardial signal transduction and molecular electrophysiology. The opportunities for linkage and collaboration with basic science departments are available and a secondary appointment would be encouraged. Applicants should submit a curriculum vitae, reference list, and a brief description of research interests to:

Dr. Bruce B. Lerman
The New York Hospital—Cornell Medical Center
525 East 68th Street, ST-409
New York, NY 10021

*Cornell University is an Equal Opportunity/
Affirmative Action Employer.*

TEMPORARY POSITION ASSISTANT PROFESSOR, CHEMISTRY

The Chemistry Department at Western Michigan University is seeking applications for a temporary, academic year **SABBATICAL REPLACEMENT** position, beginning fall 1997 at the assistant professor level. Duties include a full teaching load of freshman chemistry and undergraduate biochemistry. Applicants must possess a doctorate in chemistry/biochemistry and demonstrated excellence in teaching.

Send letter of application, curriculum vitae, academic transcripts and three letters of recommendation to: **Dr. Michael McCarville, Chair, Chemistry Department, Western Michigan University, Kalamazoo, MI 49008-3842.** Review of applications will begin February 1, 1997 and continue until the position is filled. *Western Michigan University is an Equal Opportunity Employer, has an affirmative action program and encourages applications from underrepresented groups.*

ACADEMIC POSITION ASSISTANT PROFESSOR ENVIRONMENTAL SCIENCE/CHEMISTRY

TENURE-TRACK POSITION beginning fall 1997. Ph.D. and teaching experience required. Teaching responsibilities include environmental science, general and analytical chemistry, limnology helpful, and assistance with general laboratories. Opportunity for directing undergraduate research for environmental science majors. Saint Joseph's College is a liberal arts college located on Sebago Lake northwest of Portland and two hours from Boston. Send résumé, curriculum vitae, statement of teaching philosophy, research interest, transcripts and three letters of recommendation by February 28, 1997 to:

Sister Mary Ellen Murphy, Ph.D., Dean
Saint Joseph's College
278 Whites Bridge Road
Standish, ME 04084-5263

Fisheries Department, Auburn University, Alabama invites applications for two **ASSISTANT PROFESSOR** positions: ichthyologist and extension recreational fisheries/biologist. Call **334-844-4786** by January 31, 1997 for complete information in order to have ample time to apply by initial screening date of March 10, 1997. *Auburn University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*

POSITIONS OPEN

BIOLOGY

The Department of Biology at Northeastern State University invites applications for an **ASSISTANT PROFESSOR**, Field Biologist, to teach ecology, environmental problems, senior seminar, and field courses in area of specialty. Individual will be based in Tulsa at the UCI/Rogers University but will also teach one course each semester at Tahlequah. Position will join nine-member biology department housed at main campus. Ph.D. required. Send letter of application, résumé, unofficial transcripts, and three letters of recommendation to:

Personnel Office (EOMB)
Northeastern State University
Tahlequah, OK 74464

Review of applicants begins March 3, 1997.
An Affirmative Action/Equal Opportunity Employer.

Terrestrial Plant Ecologist, full-time, tenure-track, **ASSISTANT PROFESSOR** opening available August 1997. Ph.D. required. Instructs general ecology and vascular plant systematic courses and a course in candidate's expertise. Emphasis in community/population ecology. For more information, contact: **Dr. MaryJane Taylor, Email: mjtaylor@loras.edu** or **Dr. Gerald Eagleson, Email: eaglegw@loras.edu.** Application review begins February 14, 1997. Send letter, curriculum vitae, transcripts and three references to: **Chair, Biology Search Committee, c/o Human Resource Department, Loras College, Dubuque, IA 52004-0178.** *Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.*

ASSISTANT PROFESSOR of entomology, insect pathologist, tenure-track position. Applications should include a curriculum vitae, statement of research plans and of teaching experience and interests, transcripts copies or list of relevant undergraduate and graduate courses, and the names and addresses of five referees. Direct applications to: **Dr. Michael Ma, Department of Entomology, University of Maryland, College Park, MD 20742** before March 15, 1997.

RESEARCH HYDROLOGIST (GS 1315-12/13)

Salary range for fiscal year 1997 is \$44,953-\$69,492. The Subsurface Protection and Remediation Division of the National Risk Management Research Laboratory, U.S. Environmental Protection Agency (USEPA), invites applications for a geohydrologist to join an existing team of hydrologists, geologists, soil scientists, microbiologists, chemists, engineers, and ecologists.

The successful candidate will have demonstrated ability to conduct research in quantitative subsurface hydrology with specialties in contaminant transport modeling (e.g., multiple fluid phases, colloidal and virus transport, influence of highly heterogeneous aquifers, ground water/surface water interactions), the ability to contribute to ecosystem protection and restoration projects, and the ability and interest to work as part of multidisciplinary teams to solve environmental problems. *U.S. citizenship is required for employment.* A doctoral degree or GS-11 level experience or an equivalent combination of education and experience is also expected.

The position is located at the Robert S. Kerr Environmental Research Center in Ada, Oklahoma; Web site: <http://www.epa.gov/ada/kerrlab.html>.

Applications will be accepted until January 31, 1997. For further information and a copy of the official announcement and the necessary forms, please contact: **Career America Connection at Telephone: 912-757-3000,** or the **Federal Jobs Opportunities Bulletin Board (BBS) at Telephone: 912-757-3100** or Web sites: <http://www.usajobs.opm.gov/> and <http://www.epa.gov/epahome/jobs.html>. *The USEPA is an Equal Opportunity Employer.*

PRODUCT DEVELOPMENT

Submission of innovative ideas, proposals and novel concepts relating to anesthetics, analgesics, and cancer treatment are being invited for clinical use. Accepted applications will be pursued further for patents and clinical trials by our well established group. Applications should ideally have a brief description of the proposed drug/instrument or technique for development and the names of the original inventors. Patented products which need further support will also be considered for clinical trials. All submitted information will be held confidential and a reply will be given within 20 days of receipt. Contact: **C. E. Romero, VP Product Development, Broadview Consultants Inc., 70 Fifth Avenue, New Rochelle, NY 10801.**

CORNELL UNIVERSITY

Department of Computer Science

**TENURE-TRACK POSITION IN
COMPUTATIONAL SCIENCE**

We are seeking applicants at all ranks for a tenure track position in computational science. The applicant should have a very strong background in computer science, and should also have a strong background and research interest in computational aspects of some field of natural science, such as biology, chemistry, physics, or materials science.

Research may include such topics as simulation (both mathematical and systems aspects), problem solving environments, domain-specific algorithms, and high-performance computing to support computational science. We are looking for candidates with demonstrated research accomplishments and who are committed to excellence in teaching computer science.

REF: CS#2

Further information about the department is available on the World Wide Web at URL: <http://www.cs.cornell.edu/>

Applicants should submit a vitae and the names of at least three references to: **Chair, Faculty Recruiting Committee, Department of Computer Science, 4130 Upson Hall, Cornell University, Ithaca, NY 14853-7501.** Please include reference number with application.

Cornell University is an equal opportunity employer and welcomes applications from women and ethnic minorities.

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HEAD OF BIOINFORMATICS

The ideal candidate we select to help establish our new Bioinformatics Group will possess a PhD in a physical science, computer science or mathematics and a minimum of 5 years' experience in large scale systems development. Technical expertise in data analysis, programming, and database development, plus experience with bioinformatics development and/or management of an informatics group required. Familiarity with principles of molecular biology and chemistry is highly desirable; excellent communication skills are crucial.

BIOINFORMATICS GROUP

We are currently building a Bioinformatics Group to support the application of our GeneChip technology in gene expression, mapping, polymorphism screening, gene discovery and diagnostic algorithm development. We have opportunities at several levels — exciting opportunities for you to grow with the Group and reenergize your career. We are accepting resumes from candidates with pertinent experience, excellent communication skills and a strong desire to succeed as part of an upstart team.

Offering a small company atmosphere with big scientific potential, Affymetrix provides attractive salaries, comprehensive benefits, and the exhilarating synergy of our world-class multidisciplinary team. For consideration, please send or fax your resume to Affymetrix, Human Resources, 3380 Central Expressway, Santa Clara, CA 95051; Fax (408) 481-0422. We are an equal opportunity employer.



Join Our Innovative Pharmaceutical Research Team

Zeneca Pharmaceuticals is a worldwide leader in the discovery, development and marketing of important new therapeutic agents. We are searching for the brightest and best scientists to join our international research team. These scientists will devote themselves to the discovery and development of innovative products to conquer currently unmet medical challenges. Demonstrated excellence in the areas of bioinformatics, genomics, molecular and cellular biology, and medicinal and synthetic chemistry is of particular interest during this phase of expansion.

Bioinformatics Analysts

We are currently seeking individuals to join our International Bioinformatics Group. Successful candidates will deliver cutting edge bioinformatics capabilities to our drug discovery efforts by contributing to problem definition, application evaluation, integration, as well as influencing Bioinformatics Strategy.

For more information, please contact us at:

Zeneca Pharmaceuticals
1800 Concord Pike
Wilmington, DE 19850-5437
Attn: Darla Wilson, Human
Resources Department,
Job Code 97-001

Austin Knight UK Ltd.
98 King Street
Manchester, M2 4WD
UK
Attn: Bill Cogle, Director,
Consultancy Services

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Bioinformatics Ph.D./M.S.

As part of our Genetic Technologies group, the selected candidate will develop and apply computational sequence analysis methods for database searching, protein structure/function prediction and pattern discrimination from complex data. Experience in molecular biology research, applied statistical analysis, WWW development and RDBMS design is required. Excellent communication skills and the ability to work in a dynamic team environment are essential. **Job Code #2051**

CNS Molecular Biology Postdoctoral Scientist

We are seeking a scientist, experienced in molecular biology and biochemistry, to investigate the molecular mechanisms underlying drug addiction. The candidate must have a Ph.D., a strong background in molecular biology techniques and experience in cell culture and protein biochemistry. Experience with analysis of transgenic mice and a background in neuroscience are desirable. This is a 3 year postdoctoral fellowship with the first 18 months at Pfizer in Groton, CT and the second 18 months at Yale University. **Job Code #2052**

Pfizer scientists are involved in some of the most critical research in the world today. As a Fortune 100 company, we have established a product pipeline that is unparalleled, and an intellectual, collaborative environment that inspires scientific achievement. Join us, and participate in creating innovative solutions to disease and illness.

In addition to a fast-paced, yet collegial environment, we offer very competitive salaries and excellent benefits including relocation assistance. For confidential consideration, please forward resume to: **Employee Resources, Pfizer Inc, Job Code #____, Central Research Division, Eastern Point Road, Groton, CT 06340.** For more information about Pfizer, see us on the Internet at: <http://www.pfizer.com>. We are an equal opportunity employer M/F/D/V.



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Senior Research Scientist

Working in a fast-paced, creative, multi-disciplinary environment, the successful candidate will be responsible for developing new technologies and assays, implementing a variety of High Throughput Screening (HTS) assays, data management, and identifying and characterizing lead compounds for drug discovery. You will work on multiple projects simultaneously as part of a larger team of scientists developing and using a broad range of technology, including robotics-based HTS and novel combinatorial screening methods. These challenging positions involve supervision of research associates and intensive collaboration and communication with scientists working on all aspects of drug discovery research in multiple therapeutic areas.

We require a Ph.D. and post-doctoral experience with a track-record of success in one or more of the following: biochemical, cellular, and/or ligand-binding assay design and implementation; invention or development of novel screening methods; automated HTS; and/or screening of small molecule combinatorial libraries.

With over 50,000 employees worldwide and more than \$10 billion in annual sales, we've established ourselves as a respected global business and innovative leader in the changing health care industry. For consideration, please send your resume with salary history to:

Abbott Laboratories, Job #96-LAM-2400, D583,
AP9A, 100 Abbott Park Rd., Abbott Park, IL 60064.

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PHARMACEUTICAL PROFESSIONALS

Pfizer Inc., one of the world's premier research-based, global health care organizations, has attractive opportunities for experienced Pharmaceutical Professionals in our New York-based Clinical Data Operations unit. Clinical Data Operations handles the Biometrics functions associated with Pfizer's U.S. and International phase IIIB-IV clinical trials, in support of in-line products. As Pfizer's product pipeline is experiencing rapid growth, the following exciting opportunities have opened:

SAS PROGRAMMERS

Develop software to process and analyze clinical trials data. Investigate new methodologies and techniques for efficient processing and statistical analysis of clinical data. A BA or the equivalent experience in Statistics, Mathematics or Computer Science is required. 4+ years' experience, including programming clinical data using SAS, and knowledge of the structure of clinical data also is required. Job Code: SAS-SC

ASSOCIATE DIRECTOR, STATISTICS

Collaborate in the planning and design of clinical trials. Analyze and report clinical studies and perform meta-analyses of clinical information to expand product knowledge in the new health care environment. Ph.D. in Statistics or Biostatistics, 5+ years' experience in clinical trials, and demonstrated ability to manage projects and people are required. An in-depth knowledge of statistical concepts and methodologies, proficiency with statistical analysis software, familiarity with regulatory requirements concerning NDA submission and compliance, and strong communication skills also are required. Job Code: BIO-SC

We offer relocation reimbursement, an attractive salary and excellent benefits package. For confidential consideration, forward your resume, including salary requirements and appropriate job code, suitable for scanning (i.e. clean/clear, no graphics and preferably unfolded) to: Box GM755, 1633 Broadway, 33rd Floor, New York, NY 10019, or e-mail us at consac@pfizer.com. We are an equal opportunity employer.



Exelixis Pharmaceuticals, Inc. is a rapidly growing, well-funded private genomics company focused on defining biochemical pathways involved in chronic human diseases. Exelixis uses model organisms to bridge the gap between gene sequence and drug screening targets in multiple disease areas. We currently have the following openings:

COMPUTATIONAL BIOLOGIST. Develop and apply software tools for analysis of genomic data. Expertise desired with DNA/protein sequence databases, common tools for analyzing sequence data, and knowledge of algorithms for sequence comparison and function prediction. Ph.D. level.

APPLICATIONS PROGRAMMER. Design, develop, and integrate software tools in a UNIX environment in the context of analyzing genomic data. Expertise desired with UNIX, C, C++, Perl, HTML, SQL and/or Java; experience with client-server architectures; and familiarity with molecular biology, genetics, or genomics. B.A./M.S. level.

SYSTEMS ADMINISTRATOR. Maintain a small network of UNIX workstations. Expertise desired with client-server architectures, network protocols and tools, and mixed UNIX and Macintosh networking. B.A./M.S. level.

Exelixis is seeking talented individuals who are attracted to a dynamic, entrepreneurial setting. Good communication skills and the ability to participate in a team-oriented environment are essential. We offer a progressive work environment, competitive compensation, and encourage publication in leading scientific journals.

For prompt consideration, please specify the position for which you are applying and send your resume to:



EXELIXIS
pharmaceuticals, inc.

Human Resources, Exelixis Pharmaceuticals, Inc.
2220 Livingston Ave., #202, Oakland, CA 94606
Fax: 510-261-9029 Equal Opportunity Employer

BIOINFORMATICS

Looking for a career in bioinformatics?

Check out the bioinformatics recruitment advertisements in this issue of SCIENCE!

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The Jackson Laboratory

Harvard Medical School

Millennium Pharmaceuticals, Inc.

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Pharmaceuticals

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ZymoGenetics, Inc.

SCIENCE

<http://www.sciencemag.org>

BIOINFORMATICS

Department of Genetics
Harvard Medical School
and

Harvard Institute of Human Genetics

The Department of Genetics and the Harvard Institute of Human Genetics invites applicants for the position of Research Associate in the general area of bioinformatics. Qualifications for the position include a strong potential for imaginative research in any area of contemporary biomedicine or computer science. This position offers very significant scholarly and scientific resources for independent research as well as the opportunity to collaborate closely on strong programs in human genetics, epidemiology, biological system modeling, databases, and new technology development for genome sequencing and gene expression monitoring.

Applicants should submit, as soon as possible, and prior to February 28, curriculum vitae, bibliography, a brief (limit to 500 words) description of research interests, and ask three references to send letters of recommendation.


These materials should be directed to:

Dr. George Church
Chairman, Search Committee
Department of Genetics
Harvard Medical School
200 Longwood Avenue
Boston, MA 02115




For further information: <http://www.hmsgenetics.harvard.edu>

COURSES & TRAINING

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<p>Nucleic Acid and Protein Sequence Analysis</p> <p><i>Application Deadline: June 23</i></p>	

Direct All Inquiries to:
Nancy Blankenstein
Pittsburgh Supercomputing Center
4400 Fifth Avenue Suite 230C
Pittsburgh, PA 15213
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SCIENTIST/SENIOR SCIENTISTS

ZymoGenetics, a local biotechnology company located in Seattle's historic Lake Union Steam Plant, is seeking four senior level specialists to join us as Senior Scientists.

SCIENTIST, PROTEIN EXPRESSION TECHNOLOGY

This position works within our Protein Expression Technology group discovering/producing novel therapeutic proteins. Duties include the expression of novel recombinant proteins in mammalian cells and the development of improved expression technologies. Will interact with a variety of scientists regarding bioinformatics, cDNA cloning, protein chemistry, cell and animal biology.

Qualified candidates will have a Ph.D. degree in Biology or related field and 6+ years experience. Requires expertise in heterologous gene expression in mammalian cells. Background in one or more of the following is preferred: protein secretion/processing, virology, CHO production cell lines or protein product development. Reference #11N396.

SCIENTIST, RECOMBINANT PROTEINS

You will direct a group developing processes for expression and purification of recombinant proteins. Responsibilities include hands-on work aimed at optimizing the fermentation and up-stream recovery processes for recombinant proteins. Will also participate in the team development of down-stream purification schemes.

Qualified candidates will have a Ph.D. degree and 3-5 years experience in fermentation and expression of recombinant proteins in *E. coli* and/or yeast (BS/MS degree with 5-10 years experience will be considered). Must have strong interpersonal and communication skills for interaction with a multi-disciplinary project team. Reference #31R296.

SCIENTIST, DNA SEQUENCE ANALYSIS

This position will be involved with cDNA cloning and DNA sequence analysis. Ideal candidate will have a Ph.D. degree and 2+ years experience in interpretation/analysis of both genomic DNA and cDNA sequences. Background should include common nucleic acid and protein search engines (blast, fasta, etc.), as well as troubleshooting of "problematic" sequences. Must be well versed in PCR/conventional cloning methods. Reference #11N196.

VETERINARY PATHOLOGIST

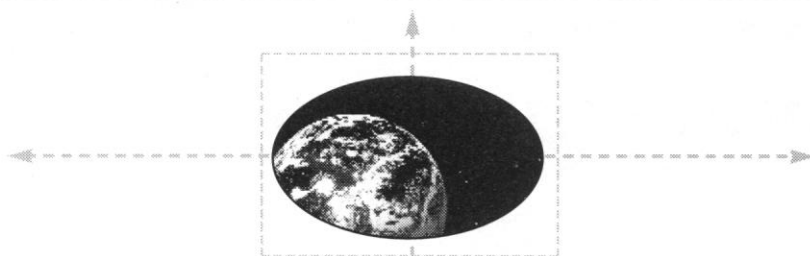
Working in our In Vivo Biology group, you will have an exciting opportunity to discover new therapeutic proteins. Will test novel proteins in animals and evaluate their potential clinical utility. You will read/interpret histopathology, immunocytochemistry and in situ hybridization specimens, as well as develop novel detection methods and supervise our histology laboratory.

Successful candidate will have a DVM or Ph.D. degree and 5+ years industry/academic experience with board certification in veterinary pathology. Working in a multi-disciplinary team, you must be flexible/versatile and possess excellent written/verbal communication skills. Expertise in one of more of the following areas is highly desirable: ISH/FISH, evaluation of transgenic and knockout phenotypes, immunocytochemistry, evaluation of a variety of animal models of disease. Significant rodent experience strongly preferred. Reference #15N896.

As a subsidiary of NOVO NORDISK, the world's largest producer of industrial enzymes, ZymoGenetics offers an exciting environment characteristic of small research and development company, along with the scope and stability of a large pharmaceutical corporation. We also offer intellectual challenge, state-of-the-art facilities and a generous benefits package. Please apply by sending your resume/CV, (indicating reference #) to: ZymoGenetics, Inc., Human Resources, 1201 Eastlake Avenue East, Seattle, WA 98102. ZymoGenetics is committed to equal opportunity and diversity.

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As a subsidiary of the Fortune 100 Monsanto Company, Ceregen is a world leader in the discovery and development of agricultural products based on advanced chemistry and biotechnology. And our professionals are playing a key role in their ongoing product development and support, and in our future.

SENIOR SCIENTIST/POSTDOCTORAL POSITIONS

Monsanto is a world leader in the discovery and development of agricultural products based on advanced chemistry and biotechnology. We offer excellent opportunities for experienced professionals in our St. Louis - based research center.

DISEASE CONTROL

Senior Scientist (Job #DC1): We seek one senior scientist to join a team working on the interface of plant disease resistance and genomics. Candidates must have a Ph.D. in Molecular Biology or related disciplines with experience in handling high molecular weight DNA. Demonstrated history of productivity and creativity is required. The ability to work in a team is essential. Interested researchers are encouraged to submit a brief research proposal along with an application.

Protein Biochemists (Jobs #DC2, #DC3, #DC4): As part of the disease control team, you will provide expertise and experimental support to the discovery and development of novel proteins for plant disease control. We require a Ph.D. for Job #DC2, a MS for Job #DC3 and D04, in Biochemistry or a related discipline along with 2-3 years of working experience including protein purification from microbial and plant sources. Additional knowledge of protein assay development, protein characterization, high throughput screening is essential. Molecular biology experience is a plus.

Postdoctoral Position (Job #PD1): We seek one post-doctoral researcher to join a team working on the interface of plant disease resistance and genomics. Candidates must have a recent Ph.D. with broad experience in molecular biology and an interest in plant disease resistance. Demonstrated history of productivity and creativity is required. The ability to work in a team is essential. Interested researchers are encouraged to submit a brief research proposal along with an application.

Postdoctoral Position (Job #PD2): This position is available immediately for highly motivated individuals interested in the mode of action of anti-microbial proteins. A recent Ph.D., experiences in protein biochemistry, fungal physiology, in-situ hybridization, electron microscopy are desirable. Molecular Biology experience is a plus.

NEMATODE CONTROL

Senior Scientist (Job #NC1): We are seeking an outstanding Plant Nematologist with extensive experience in root parasitic nematodes to participate in our program to develop nematode resistant crops. The scientist selected for this position will be responsible for development of in vitro assays for discovery of anti-nematode proteins and for evaluation of transgenic plants for nematode resistance. The candidate for this position will have a Ph.D. in Plant Pathology, Nematology or an appropriate discipline with at least 2-3 years of post-doctoral experience. Experience in molecular aspects of plant-nematode interactions will be a plus.

INSECT CONTROL

Microbiologist (Job #IC1): The Insect control program has an opening for a microbiologist to work on a team dedicated to the discovery and development of novel insect control proteins. The position demands an adaptable, innovative person with microbiology expertise and hands on fermentation experience. This position requires a B.S. or M.S. in Microbiology or related discipline. Specific experience in microbial production of bioactive proteins is desirable. Candidates should have strong communication skills and an ability to work well in a team-based research atmosphere.

Protein Biochemist (Job #IC2): The Insect control program has an opening for a protein biochemist to work on a team dedicated to the discovery and development of insect control products. The position demands an adaptable, innovative person with strong protein biochemistry skills. The qualified candidate will possess a Ph.D. in Biochemistry or related discipline. Specific experience in protein purification, enzymology, and/or protein structure/function studies is necessary. Plant and/or insect physiology training are pluses. Candidates should have strong communication skills and an ability to work well in a team-based research atmosphere.

Interested candidates should address their resumes to: **The Monsanto Company, Attn: B. Robinson, 700 Chesterfield Village Parkway, Chesterfield, MO 63198, or fax to (314)-537-7015.**



Mitotix is a biotechnology company developing cell-cycle based biotherapeutics for cancer, cardiovascular and infectious diseases.

SCIENTIST HIGH-THROUGHPUT SCREENING

Our screening group is seeking a highly motivated individual to design, develop and implement high-throughput drug screens and to direct the use of laboratory workstations. The job will entail supervisory and project management responsibilities. A Ph.D. in Biology or Chemistry and a minimum of 2 years' experience in a pharmaceutical or biotechnology company are required. Substantial hands-on experience of pipetting workstations and/or robotics systems is essential. Previous supervisory experience is desirable. **Job Code HTS97.**

SCIENTIST BIOCHEMIST/ENZYMOLOGIST

We are currently seeking an individual with a Ph.D. in Biochemistry with expertise in enzymology to join the Infectious Disease Program. The position will entail kinetic analysis of novel enzymes, structurefunction studies, assay development and evaluation of lead compounds. Knowledge of recombinant DNA technology and immunochemistry is preferable. **Job Code BE97.**

Mitotix offers competitive salaries, benefits and a chance to work in an exciting scientific environment. Please send resume, indicating **Job Code to: Human Resources, Mitotix, Inc., One Kendall Sq., Bldg. 600, Cambridge, MA 02139.** No telephone calls please.



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Edward J. Calabrese, Ph.D. and

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CNS DISCOVERY RESEARCH AT SCHERING-PLOUGH

At the Schering-Plough Research Institute, insightful scientists are discovering innovative therapeutic agents that challenge humankind's most debilitating diseases. If you are seeking an opportunity to be on the cutting edge of pharmaceutical discovery, become part of an advanced multidisciplinary research group focused on molecular targets for CNS disorders.

The following positions are available for talented scientists with a PhD, at least 3 years of postdoctoral experience, a strong record of scientific achievement, and the ability to initiate and direct an independent research program.

SENIOR SCIENTIST *Molecular Biology*

We have an excellent opportunity for a scientist with a strong background in molecular and cell biology to study signal transduction pathways involved in neurodegeneration. Extensive experience in all common molecular biological techniques such as cDNA library construction and screening, polymerase chain reaction, and expression of cloned genes in prokaryotic and eukaryotic cells is required. Familiarity with basic protein biochemistry techniques (enzyme kinetics, antibody generation and characterization, immunoblotting, protein purification) is a plus. Background in signal transduction research and neurobiology is helpful. To be considered for this position, please respond to Dept. DD96MB-BG.

SENIOR SCIENTIST *Neurobiology/Cell Biology*

We are seeking a cell biologist with a strong background in neurobiology to study the molecular and cellular mechanisms responsible for neuronal degeneration in Alzheimer's disease. Experience with primary neuronal cultures, mammalian cell culture, ELISA techniques, antibody generation, immunocytochemistry, signal transduction assays and basic molecular biology techniques is required. To be considered for this position, please respond to Dept. DD96NCB-BG.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume with salary requirements to: Human Resources-BG, Schering-Plough Research Institute, 2015 Galloping Kill Road, Kenilworth, NJ 07033-0539. You may also respond via e-mail to: spri@spcorp.com. Please include the Department Code for your position of interest in the Subject Line. We are an equal opportunity employer. *We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.*



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Research Associate *Molecular Biology*

Join an exciting research team focused in the search and characterization of receptors and ligands of therapeutic interest by expression cloning. To qualify you must have a BS/MS in Biology or related life science, coupled with a minimum of 3 to 5 years' applied experience working in a molecular/cellular biology environment. The successful candidate must have excellent organizational skills and familiarity with cDNA library construction, mammalian tissue culture and cell transfection. Previous direct experience with expression cloning would be desirable. Job Code JOFD97

Research Associate *Cardiovascular Research*

Be a part of our innovative research group involved in the discovery of novel regulators of blood vessel growth and the characterization of known regulators such as VEGF. We require a BS/MS in Biology or related life science. The successful candidate will possess applied experience in cell culture; preferably in endothelial and tumor cell cultures and basic molecular biology techniques including Northern/Southern blotting and PCR. Interest in performing in vivo tumor biology studies will be desirable. Job Code JONS97

Join us and enjoy our exciting success and progressive benefit package that includes fully paid medical/dental/vision coverage, 3 weeks paid vacation, 6 weeks sabbatical after every 6 years, stock purchase opportunities for full time employees, and free health club membership. For consideration, send your resume, indicating Job Code of interest, to Genentech, Inc., Human Resources, 460 Pt. San Bruno Blvd., South San Francisco, CA 94080. Please avoid bold, underline or italic type faces. You may also e-mail your resume indicating Job Code to jobs@gene.com (ASCII files only with a maximum line width of 76 characters). Genentech is an Equal Opportunity Employer. We value the contributions of our diverse workforce.

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Request for Proposals

The James S. McDonnell Foundation
Eastern European Cognitive Neuroscience
and Cognitive Science Program

The James S. McDonnell Foundation provides special, short-term support for **collaborative** research projects in cognitive neuroscience or cognitive science proposed by researchers in Eastern Europe (EE), Central Europe (CE), or the Commonwealth of Independent States (CIS) and their North American or Western European colleagues. In 1997, the Foundation will award up to \$500,000 in support of collaborative research of this nature.

The Foundation will review proposals, submitted by North American or Western European institutions requesting support for research in cognitive neuroscience and cognitive science carried out in EE, CE and/or CIS laboratories in collaboration with their colleagues at Western European or North American institutions. The highest priority will be given to projects where the funds are expended in the EE, CE, or CIS institution to develop and sustain the activity of independent investigators or research teams. **Proposals primarily requesting postdoctoral stipends or other salary support to permit an EE, CE or CIS scientist to work for an extended period of time in a North American or Western European laboratory are not applicable to this RFP.**

Applications may request up to three years of support. The total request should not exceed the funding guideline in the McDonnell-Pew Program for Cognitive Neuroscience; up to \$105,000 over three years, including indirect costs (10% of salaries and benefits only).

Applications must be received in the Foundation office on or before the close of business (5:00 p.m. CDT), August 4, 1997. Awards will be announced by the end of October.

Please review the program guidelines before preparing an application. Guidelines are posted on the Foundations web site at <http://www.jsmf.org>. If you do not have access to the Internet, a copy of the guidelines can be obtained via Email, eepr@jsmf.org or by calling 314-721-1532. The Foundation encourages you to use the Internet or Email.

Please address proposals to: Susan M. Fitzpatrick, Ph.D., Program Officer, The James S. McDonnell Foundation, 1034 S. Brentwood Blvd., Suite 1850, St. Louis, MO 63117.

ANNOUNCEMENT

NASA RESEARCH ANNOUNCEMENT FOR SPACE LIFE SCIENCES

The National Aeronautics and Space Administration (NASA) announces two solicitations for scientific research proposals in space life sciences.

- 1) NRA 96-HEDS-04: Gravitational Biology and Biomedical Research and Countermeasures Programs
- 2) NRA 96-HEDS-05: Advanced Human Support Technologies Program

Proposals requested by these announcements may be for ground-based research investigations or for space flight experiments designed for the Shuttle middeck or for the earliest phase of utilization of the International Space Station.

These solicitations are available electronically via the internet at <http://www.hq.nasa.gov/office/olmsa/UL/codeul.html>

Paper copies of these announcements are available to those who do not have access to the internet by calling (202) 358-4180 and leaving a voice mail message. Please leave your full name and address, including zip code and telephone number with area code, along with the name and number of the NRA you are requesting.

OPPORTUNITIES IN R&D DISCOVERY

SmithKline Beecham, a worldwide leader in pharmaceutical R&D, consumer healthcare and genetic medicine, continues to experience outstanding success. As a result, we seek to add the following professionals to our industry-leading scientific team.

Bone Cartilage Biology

The Cellular Biochemistry Department has two excellent opportunities for Scientists to participate in drug discovery directed towards novel therapeutic approaches to osteoporosis and joint disease. The selected candidates will have significant involvement in the design and execution of *in vivo* pharmacology studies supporting a diverse range of drug discovery efforts. One position requires expertise in small animal surgery; the other requires histomorphometry/microscopic analysis. Successful candidates will direct these skills toward the use of established model systems and the development of novel *in vivo* models of bone resorption and formation. Other duties will include participation in animal dosing; *in vivo* measurement of bone mineral density by DXA; and the running of ELISAs and RIAs. Qualifications include a BS or BA in biological sciences with 2-5 years' research experience in an academic or commercial laboratory where teamwork and collaboration have been necessary. Willingness to work with animals is essential. Experience in bone cartilage biology is desirable. Refer to Job Code D6-0362.

Gene Expression Sciences

This postdoctoral research position is available immediately to characterize novel gene function as it relates to conserved components of innate immunity expressed in *Drosophila melanogaster*. This position will interface with human genomic studies and will involve the analysis of gene functions in *Drosophila* S2 cell culture. Qualified candidates will have a strong background in the fundamentals of immunology, especially in the area of innate immunity. Candidates should also be willing to work in multidisciplinary teams. Experience in targeted gene disruption or heterologous gene expression in insect cell culture is preferred. Refer to Job Code D6-0601.

Computational Chemistry

Our Computational Chemistry Group seeks a Scientific Programmer who will assist in the development of state-of-the-art software. Qualifications include BS/MS in computer science or electrical engineering (with experience or course work in chemistry) or BS/MS in chemistry with demonstrated abilities in scientific computer programming. Excellent programming skills and knowledge of UNIX, C and Fortran is necessary. Experience with Silicon Graphics workstations and computational chemistry software is desirable. Refer to Job Code D6-0117.

Two additional positions exist within the Computational Chemistry group. A Database Mining professional with extensive experience in pattern recognition, machine learning or chemometrics is needed. This individual must have the ability to develop new algorithms, and have experience in chemical or biological database analysis. This group also seeks a Database Integration Scientist to develop methods for integration and synthesis of information across multiple disparate databases. Candidates for Database Integration must have a background in relational and object-oriented databases and object broker technology. Both positions require a PhD in chemistry, biochemistry and/or an MS in computer science with related experience. Refer to Job Code D6-0578.

Located in a state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers an excellent compensation/benefits package. Qualified candidates should forward resume and salary requirements, indicating desired Job Code, to: SmithKline Beecham Pharmaceuticals, Job Code _____, PO Box 2676, Bala Cynwyd, PA 19004. For more information on SmithKline Beecham, visit our Website at <http://www.sb.com>. We are an Equal Opportunity Employer, M/F/D/V.



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Tenure-Track Positions Assistant Professor Equivalent

Circadian Rhythms: Molecular Mechanism

The National Institute of Mental Health is searching for a tenure-track investigator for the Laboratory of Cellular and Molecular Regulation. The successful candidate will establish an independent program to pursue the cellular and molecular mechanisms underlying the generation, expression and/or regulation of circadian rhythms in vertebrates. Applicants should send a *curriculum vitae*, bibliography, summary of past research experience and achievements, description of research plans, and the names and addresses of three references to: Martin Zatz (OE-123), NIMH, Building 36, Room 3A-17, 36 CONVENT DR MSC 4068, BETHESDA MD 20892-4068. Deadline for applications is February 15, 1997.

Cell Cycle Regulation

The National Institute of Child Health and Development has a position available to develop an independent research program using molecular, cellular, and/or genetic approaches to study cell cycle regulation. Of particular interest are applicants studying molecular mechanisms that link cell differentiation, proliferation, or death to the cell cycle. A *curriculum vitae*, bibliography, three letters of recommendation and a two-page statement of research interests and goals should be submitted by March 15, 1997. Send to: Chair, Cell Biology and Metabolism Branch Search Committee (OE-123), NICHD, Susan Jordan, Building 18T, Room 101, 18 LIBRARY DR MSC 5430, BETHESDA MD 20892-5430.

Murine Geneticist and Molecular Biologist

Position available for a murine geneticist and molecular biologist devoted to

the mapping, cloning and functional evaluation of mutated genes responsible for hereditary hearing impairment. Understanding the biological function of these genes in the normal development and physiology of the auditory system should be the primary goal. The NIDCD offers an excellent working environment including a spacious laboratory and in-house animal facility. Applicants must have a PhD or MD and an ongoing independent research program and collaborations in the field of the molecular genetics of the auditory system. Salary, resources and personnel support will be commensurate with education and experience. U.S. citizenship or permanent residency required. Deadline for applications is March 3, 1997. Send to: Ms. Christine Clements (OE-123), NIDCD, Building 31, Room 3C11, 31 CENTER DR MSC 2320, BETHESDA MD 20892-2320.

To Apply

Please send a cover letter, *curriculum vitae*, bibliography, a one- to two- page statement of research interests and goals, and selected publications to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three references who can provide an evaluation of your professional qualifications.

New WWW Site

Visit the new NIH Office of Education web site listing tenure-track positions, postdoctoral positions, and much more. Converse by e-mail with NIH investigators and apply electronically. Find us at <http://helix.nih.gov:8001/oe>



National Institutes Of Health

Office Of Education

<http://helix.nih.gov:8001/oe>

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Experimental Division Director

Laboratory for Laser Energetics

University of Rochester



The Laboratory for Laser Energetics (LLE) at the University of Rochester has an immediate opening for the Experimental Division Director. LLE is part of the National Inertial Confinement Fusion (ICF) program and is a world-class research facility centered around the recently upgraded 60-beam, 40-kJ, UV OMEGA laser-fusion experimental system. The principal ICF research carried out at LLE is devoted to investigating the direct-drive approach to ICF. Additional collaborative research into indirect-drive ICF is also performed at LLE. The responsibilities associated with the position of Experimental Division Director include overall guidance of the LLE experimental program and extensive collaborations with the ICF programs at the Lawrence Livermore National Laboratory and the Los Alamos National Laboratory in the areas of both direct- and indirect-drive ICF research.

Responsibilities associated with this position encompass all laser-fusion-related target physics experiments, target fabrication research and development and production, and research in high-power solid-state glass laser physics issues such as beam smoothing techniques. The Experimental Division Director reports directly to the Director of the Laboratory. The Experimental Division consists of 40 scientific personnel, including 15 Ph.D.'s, the remainder consists of engineers and technicians. The division works in partnership with the LLE Theory Division, which is composed of a number of theoretical physicists and experts in numerical simulations. The LLE Engineering Division provides extensive mechanical, electronics, optical design, shop, and OMEGA operations support. There are approximately 160 staff members overall at LLE. Primary funding of LLE is provided through five-year contracts with the Inertial Confinement Fusion Office of the US Department of Energy. The present annual operating budget for the Laboratory is in excess of \$25M. As part of the University of Rochester, LLE draws extensively from its undergraduate and graduate student population for thesis work in related fields such as physics, optics, engineering, chemistry, etc. Presently, there are 60 Ph.D. candidates and 40 undergraduates engaged in research at the Laboratory.

The Experimental Division Director position is the research equivalent of a full professor at the University and may include teaching duties depending on personal preference and experience. The successful candidate must either hold or be eligible to obtain a DOE Q clearance.

Interested scientists with extensive scientific and managerial credentials should apply directly to **Prof. Robert L. McCrory, Director, Laboratory for Laser Energetics, 250 East River Road, Rochester, NY 14623-1299.** Include a CV, a complete list of publications, salary objective, references, and projected time of availability.

See the LLE Web site for additional information (<http://www.lle.rochester.edu>). The University of Rochester is an Equal Opportunity Employer.

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SENIOR ENGINEER

In this leadership role, you will be responsible for the large scale development/transfer of cell culture processes to manufacturing. Involves troubleshooting, identifying/evaluating new equipment/technology and contributing to large scale process validation. Will also provide input to development and manufacturing project teams.

Qualified candidate will have a Ph.D. and 5+ years experience with large scale cell culture manufacturing processes (BS/MS and 10+ years experience will be considered). Familiarity with SIP/CIP operations and GMPs required. Knowledge of large scale downstream processing and the interface between upstream and downstream processing is highly desirable.

Immunex — there's nothing "traditional" about it! For an uncommon career experience, please submit resume and salary history to: **Immunex Corporation, Attn: Human Resources, Job #9999, 51 University Street, Seattle, WA 98101. FAX: (206) 623-4572. JOBLINE: (206) 389-4060. Visit our website at <http://www.immunex.com>. Equal Opportunity Employer.**

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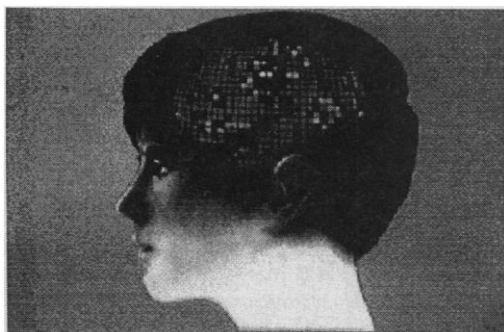
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Functional Mapping

of the

Human Brain

May 19-23 1997, Copenhagen



Extended Abstract Deadline — February 5, 1997

Human Brain Mapping '97, Secretary
Rigshospitalet, Dept. KF 4011
Blegdamsvej 9
DK-2100 Copenhagen, Denmark
FAX: 45-3545-3898
e-mail: hbm97@pet.rh.dk

WWW: <http://orkide.lab3d.odont.ku.dk/~pet/HBM97/index.html>

Co-sponsored by the Organization for Human Brain Mapping, Boston, MA, USA

SCIENTIST

Individual with Ph.D. and 2+ years of postdoctoral experience in chemistry or molecular biology, along with extensive research experience with nucleic acids. The preferred candidate will be familiar with nucleic acid structure and its characterization by biochemical and biophysical methods. Individual will join multidisciplinary team to develop next-generation technologies for the detection of nucleic acids and their complexes. (Ref 97-04)

SCIENTIST

Individual with Ph.D. and 2+ years of postdoctoral experience in microbiology or molecular biology (or equivalent experience) to work on the development of diagnostic tests for the detection of sexually transmitted diseases. Must have experience with nucleic acids. Experience in the biology and molecular biology of sexually transmitted diseases, amplification methods, and infectious disease are preferred. Excellent written and oral communication skills are required. (Ref 96-50)

SCIENTISTS AND RESEARCH ASSOCIATES

Individuals with a proven track record developing diagnostic products employing either nucleic acid or immunoassay technologies. Two or more years experience in assay development, with MS or Ph.D. in Life Sciences or Chemistry. (Ref 97-00)

Gen-Probe offers an exciting work environment, excellent benefits and competitive salaries. Please send your resume, indicating position code, to: **GEN-PROBE INCORPORATED, Attn: HR Dept/(Ref.#), 9880 Campus Point Dr., San Diego, CA 92121.** Gen-Probe supports a drug-free work environment. We are an Equal Opportunity Employer.



ANNOUNCEMENT

NATIONAL GENE VECTOR LABORATORIES

The National Gene Vector Laboratories (NGVL) are an interactive group whose purpose is to provide clinical grade adenoviral, DNA plasmid and retroviral vectors to eligible investigators for gene therapy protocols.

Requests for vector production will be reviewed by the Scientific Review Board and Steering Committee of the NGVL with selection based upon scientific merit, feasibility and availability of NGVL resources. Accepted applicants will be supplied with clinical grade vectors for use in human gene therapy trials.

The NGVL is now accepting "Request for Vector" from clinical investigators.

An application packet can be obtained through the Coordinating Center from:

Dr. Kenneth Cornetta
NGVL Coordinating Center
Indiana University
1B442, 975 West Walnut Street
Indianapolis, IN 46202
Tel: 317-274-0448
Fax: 317-278-2262

DEADLINES FOR
SUBMISSION
OF APPLICATION PACKET

APRIL 7, 1997
SEPTEMBER 8, 1997

The NGVL is an NIH Resource sponsored by the National Center for Research Resources, the National Cancer Center Institute, the National Heart, Lung, and Blood Institute, and the National Institute of Diabetes and Digestive and Kidney Diseases.

NRC-CNRC

NRC is a dynamic, nationwide R&D organization committed to helping Canada realize its potential as an innovative and competitive nation. Combining our strengths – outstanding people, core science expertise and information, research programs focused on key technologies and technology diffusion – with those of industrial and academic partners, we foster Canada's emerging national system of innovation.

You can make a difference at NRC!

Research Officers (3) Biotechnology Research Institute Montreal, Quebec

Research Officer RB-96-120 (term/2 years)

You will have a Ph.D. in biochemistry or in a related field and several years of experience in signal transduction in mammalian cells, such as characterization of PTPs, G-protein coupled receptors through the assay of mitogenic activation, early gene transcription, tyrosine phosphorylation and PI3 activity. You will have a significant publication record in this field and supervisory experience.

Research Officer RB-96-124 (continuing)

You will have a Ph.D. in organic chemistry, biochemistry or in a related discipline, with an excellent publication record in the field. You must have at least 5 years of research experience after Ph.D., with a strong background in organic chemistry and biochemistry. Work experience in solution phase peptide synthesis, solid phase peptide synthesis, enzymatic assays, and receptor binding assay are required. You'll have work experience of structural and functional studies of peptides and proteins as well as characterization of the protein-peptide interaction. You must have research experiences in the areas of receptor-ligand interaction and signal transduction. Work experience in industry is desired.

Research Officer RB-96-60 (continuing)

You will have a Ph.D. in biochemistry or in a related field, many years of experience in molecular biology and enzymology with a knowledge of structural biology and protein chemistry. Previous experience in the cloning and expression of novel enzyme targets, a significant publication record in the field as well as supervisory experience is required.

Knowledge of English or French is required for these three positions. Salary will be commensurate with qualifications and an Enhanced Reliability Check will be required.

To explore these opportunities, visit the NRC home page www.nrc.ca or send your application by February 28, 1997, **indicating the appropriate reference number, to: Recruitment and Staffing Group, National Research Council Canada, Montreal Road, Building M-58, Ottawa, Ontario K1A 0R6.**

NRC is an equal opportunity employer. We thank all those who apply and advise that only those selected for further consideration will be contacted.

Vous pouvez obtenir ces renseignements en français.



National Research
Council Canada

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de recherches Canada

Canada

BIOINFORMATICS

THE LEADER IN BIOINFORMATICS CONTINUES TO SET THE PACE.

At SmithKline Beecham, genomics is increasingly at the forefront of discovery. Along with this commitment has come the clear understanding that bioinformatics is the linchpin of the new brand of data intensive molecular biology that will take us into the 21st century.

Excellence in bioinformatics, and thus genomics, does not come without a tangible investment to assemble a critical mass of the best and brightest in this emerging field. We at SmithKline Beecham have already proven our commitment. The group of over 40 scientists and engineers now in place is slated to nearly double within a year, while the range and extent of unique data resources available to them is unprecedented.

In addition to providing tools, data and services to bench scientists and strategic alliance partners, Bioinformatics is greatly expanding its role. The Research group will be expected to make fundamental new contributions to the field, developing the algorithms and technology to keep SmithKline Beecham at the leading edge. A computational Discovery group will be charged with finding and characterizing new genes and gene families in all manner of sequence resources on a grand scale, using state-of-the-art tools. Another group will support a new initiative to sequence the genomes of a number of bacterial pathogens, an effort that will provide exciting and utterly novel opportunities for comparative genomics and functional analyses. All this is in addition to continuing the groundbreaking work that has already been done with over a million expressed sequence tags, providing a fascinating window on the human genome.

Career opportunities in Bioinformatics at SmithKline Beecham span the broad range from support roles to basic research resulting in novel patents and publications. We are currently seeking computational biologists at the Master's and Ph.D. levels, at every level of experience, including senior managers and researchers with proven records in academic or industrial research. Positions are available in both our Philadelphia and London locations. Areas of particular interest include support of high throughput sequencing, database search, sequence analysis, automated annotation, knowledge management, data mining, software engineering, sequence/structure/function, genetics and mapping.

Besides giving you the chance to make drug discovery history, SmithKline Beecham also offers a competitive compensation/benefits/relocation package and an environment in which to grow and excel. For confidential consideration, please send resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Department S1/17, P.O. Box 2645, Bala Cynwyd, PA 19004. For more information on SmithKline Beecham, visit our Website at <http://www.sb.com>. We are an Equal Opportunity Employer, M/F/D/V.



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POSITIONS OPEN

SENIOR SCIENTIST

Kind & Knox Gelatine, Inc. is looking for a qualified individual to fill the position of **SENIOR SCIENTIST** in the Photographic Research and Development Department of their Sioux City, Iowa, manufacturing facility. A Ph.D. degree in chemistry or related field is required, with preference for specialization in organic chemistry. Also required is fluency in German and English. The successful candidate must be available to participate in a company training program which will include an assignment lasting up to two years in corporate headquarters laboratories in Eberbach, Germany. During this assignment, and in subsequent assignments in Sioux City, the candidate will learn gelatine process technology, participate in development projects including product design, and participate in research projects possibly leading to publication. The successful candidate will have the capability to work on individual projects in the laboratory and in the manufacturing process, lead and direct the work of others, and become a member of various cross-functional teams. Kind & Knox Gelatine, Inc. offers a well rounded benefit and compensation package. For confidential consideration, please send résumé and salary requirements to:

Kind & Knox Gelatine, Inc.
ATTN: Human Resources Manager
P.O. Box 927
Sioux City, IA 51102
FAX: 712-943-3372

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Disabled/Veterans*

RESEARCH SCIENTISTS

Cell Biology, Biochemistry, Screening Assays

Recepton, Inc. is a biotechnology company with focus on the biology and regulation of receptor activity. The company has two to three positions open for **RESEARCH SCIENTISTS** in the areas of biochemistry, molecular biology, protein chemistry, and development of high throughput screening assays. The scientist should have three to five years of successful postdoctoral experience. Previous experience in working with hormone receptors, eukaryotic gene expression and recombinant DNA technology in general, protein purification and analysis, and tissue culture is preferable.

The company is located in the San Francisco bay area. Competitive compensation and benefits. Please address all applications (no phone calls) to:

Recepton, Inc.
Cell Biology Positions
835 Maude Avenue
Mountain View, CA 94043

RESEARCH ENTOMOLOGIST. The USDA, Agricultural Research Service, U.S. Horticultural Research Laboratory, Orlando, FL, is seeking a scientist to work in the areas of biological control, integrated pest management, and vector-pathogen-host plant relationships. Research will deal with insect pests of citrus and vegetable crops. *Candidates must be U.S. citizens.* Request a copy of the vacancy announcement for qualification information. Experience in biological control, IPM, and vector entomology is desirable. Salary is commensurate with experience (\$37,507-\$69,492 per annum). For information on application procedures/forms and a copy of the vacancy announcement, contact **Wayne Moore** at 407-897-7312. Applications submitted in response to this advertisement must include announcement number ARS-D75-002, must be postmarked by February 10, 1997, and mailed to: **USDA, ARS, HRD, Southern Operations Branch, Ms. Vicki Taber, 6305 Ivy Lane, Room 372, Greenbelt, MD 20770.** *USDA/ARS is an Equal Opportunity Employer.*

BIOPHYSICS ASSOCIATE

One-year renewable term. M.S./Ph.D. with knowledge of computer systems and biochemical procedures. To assist in the maintenance of the membrane diffractometer at the High Flux Beam Reactor, and in-house research. Send résumé, referring to Job Number NS0077, to: **Brookhaven National Laboratory, Associated Universities, Inc., HR-Building 185, P.O. Box 5000, Upton, Long Island, NY 11973-5000.** *BNL is an Equal Opportunity Employer committed to workforce diversity.*

POSITIONS OPEN

FERRING RESEARCH INSTITUTE

SENIOR BIOLOGIST

Ferring Research Institute, Inc., San Diego Division, is a research organization in the field of therapeutic peptide products.

A senior biologist is required to initiate and lead the biochemistry laboratory of the Ferring Research Institute, Inc., newly established in San Diego (La Jolla).

Responsibilities will include: *in vivo* testing of potential new pharmaceuticals; and developing screening methods using molecular biology techniques, cloning and expression of molecular targets, cell transfection and culture, and receptor binding as well as second messenger assays.

The ideal candidate will have: a Ph.D. in cell or molecular biology and several years of postdoctoral experience, preferably gained within the pharmaceutical industry; a proven ability in science and in the management of a research team coupled with good motivation and communication skills; and a knowledge of modern automated high throughput screening techniques.

Ferring Research Institute, Inc. offers an attractive remuneration package commensurate with this senior position.

Please send or fax résumé, salary history, and references to:

Ferring Research Institute, Inc.
3550 General Atomics Court, Building 2, Room 434
San Diego, CA 92121
FAX: 619-455-3190

DIRECTOR OF MANUFACTURING

SENIOR LEVEL POSITION with responsibility for outsourcing and supervision of contract manufacturing of diverse products for clinical trials including organic syntheses of glycopeptides, lipopeptides, various lipid products, liposomal formulations, and recombinant proteins produced in baculovirus and E. coli expression systems. Prior industry experience and in depth knowledge of GMP manufacture of products for clinical trials essential. The successful candidate will have excellent scientific and communication skills, and be a self-starter. Jenner Technologies is an emerging biotechnology company developing products for the immunotherapy of cancer and related conditions. Contact:

Lynn E. Spittler, M.D., President
Jenner Technologies
1895 Mountain View Drive
Tiburon, CA 94920
FAX: 415-435-9861
Email: lspittler@hooked.net

Neurobiology **RESEARCH-TRACK POSITIONS** for integrative and/or cellular neurophysiologists to join a multidisciplinary research group studying transmitter actions, synaptic processing and plasticity in the mammalian olfactory bulb and primary olfactory cortex (piriform cortex). Applicants should possess a Ph.D. and/or M.D. and demonstrated experience and publications in one or more of the following techniques: 1) *in vivo* or *in vitro* extracellular/intracellular recording, and 2) patch clamping. Excellent oral and written communication skills are desirable. Send curriculum vitae and names, addresses and telephone numbers of three references to: **Dr. M. Ennis, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, 685 West Baltimore Street, Baltimore, MD 21201.** Email: mennis@umabnet.ab.umd.edu. *The University of Maryland is an Affirmative Action/Equal Employment Opportunity/ADA Employer. Minorities and women are encouraged to apply.*

OPHTHALMOLOGIST

The University of Nebraska College of Medicine, Ophthalmology, seeking full-time academic oculoplastic and neuro-ophthalmologist, ranking depending upon qualifications. Strong commitment to teaching and research essential. Completion of satisfactory residency and American Board of Ophthalmology eligibility or certification required. Prior teaching and research experience. Health professions appointment contract with potential for renewal. Position available July 1997. Send curriculum vitae to: **Michael Yablonski, M.D., Ph.D., Professor and Chairman, Ophthalmology, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198-5540.** Telephone: 402-559-4276. *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

COLUMBIASM Colorado Division

TRAUMA RESEARCH

Applications from M.D. and/or Ph.D. to develop a program in basic or clinically related trauma research within a currently functioning research program. Salary and start-up funds available. Two thousand square feet of fully equipped research space available. Application letter, including curriculum vitae and names of three references, should be sent to:

Richard Lester Yukl, M.D.
Columbia-HealthONE Trauma Service
501 East Hampden Avenue
Englewood, CO 80110
FAX: 303-788-6928

MARINE RESEARCH ASSOCIATE III Coastal Ecologist

Seeking a full-time **RESEARCHER** to assist with development of scientific protocols for monitoring the natural resources of Cape Cod National Seashore in Massachusetts. Position includes interdisciplinary research program coordination and independent research. Master's degree in ecology, natural resources, or similar disciplines is required. A minimum of three years of experience in ecological field studies, preferably in estuarine/coastal or coastal plain habitats is required. Time committed to completing a Ph.D. program within this area of expertise qualifies as experience. Experience in data management, quantitative data analysis, technical writing, and making oral presentations is required. Position is located at the Cape Cod National Seashore Laboratory. Position is limited to one year with extension contingent on funding. Submit a letter of application, curriculum vitae, and names/addresses of three references by January 31, 1997 to: **C. Roman, Search Coordinator (Log Number 091205), University of Rhode Island, P. O. Box G, Kingston, RI 02881.** *The University of Rhode Island is an Affirmative Action/Equal Opportunity Employer and is committed to increasing the diversity of its faculty, staff and students. Persons from underrepresented groups are encouraged to apply.*

RESEARCH ASSISTANT POSITION

Immediately available in our experimental cancer research labs. Requirements include previous experience in tissue culture and animal tumor models as well as in morphological and immunocytochemical techniques. The ability to work independently is also a requirement. Please send résumé and names of three references to: **Dr. Etreby, Medical College of Georgia, Section of Urology, BAA-8414, Augusta, GA 30912-4050.** *An Equal Opportunity Employer.*

POSTDOCTORAL FELLOWSHIPS available to characterize the role of the proprotein convertase-matrix metalloproteinase axis in tissue-invasive/morphogenetic programs (e.g., *PNAS* 92:3849, 1995; *Nature* 375:244, 1995; *JBC* 271:9135, 1996). Strong background in cell and molecular biology is required. Submit curriculum vitae and two letters of reference to: **Stephen J. Weiss, M.D., Upjohn Professor of Medicine, University of Michigan Cancer Center, 5301 MSRB III, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0640.**

POSTDOCTORAL POSITION

Available immediately for the study of the modulation of growth factor-mediated signaling by nitric oxide and reactive oxygen species. Experience in modern molecular techniques is essential. Send curriculum vitae and phone, Email and fax numbers of three references to: **Dr. Arnold Stern, Department of Pharmacology, New York University Medical Center, 550 First Avenue, New York, NY 10016.** Email: sterna01@popmail.med.nyu.edu.

POSTDOCTORAL POSITIONS, GENE TRANSFER

Study mechanisms of gene transfer for use in gene therapy (*Science* 261:209; *JBC* 268:16087, 270:24864; *BBR* 1278:41). Seek molecular biologist and vascular biologist. Send curriculum vitae and names of three references to: **Dr. Robert Debs, California Pacific Medical Center Research Institute, 2330 Clay, Stern Building, San Francisco, CA 94115.** FAX: 415-561-1725; Email: karin@itsa.ucsf.edu.



New York University

CHAIRPERSON PHYSICS DEPARTMENT

The Physics Department of New York University invites applications and nominations for the position of Chairperson, to begin as early as September 1997. Applicants should have a distinguished record of scientific accomplishments and demonstrated leadership. We encourage candidates who are interested in promoting interactions between Physics and other scientific departments within the University.

Applications should include a c.v., a list of publications, a statement of research interests, and a brief statement of the applicant's views on development of physics departments. Please address applications and correspondence to: Professor **Robert Shapley, Chairperson, Physics Search Committee, New York University, 6 Washington Place, Room 1059, New York, NY 10003. Closing date for applications is March 21, 1997.**

NYU encourages applications from women and members of minority groups.

Associate/Staff Scientist

Be at the forefront of drug development research with The DuPont Merck Pharmaceutical Company. We are focused on bringing novel solutions to major unmet medical needs through the discovery and development of innovative compounds leading to novel pharmaceuticals. We have 2 openings at our facilities in Wilmington, DE.

- In this position the candidate will be responsible for preparation and analysis of histological material to study drug effects on brain functions. Extensive experience in immunohistochemistry, in situ hybridization and receptor autoradiography are required. The individual will be using image analysis software to evaluate images obtained by video- and confocal microscopy.

- In this position the candidate will use primary cell cultures from mammalian CNS, and molecular biological methods, in research supporting drug discovery targeting CNS diseases. Experience should

include establishing several mammalian primary neuronal cultures; characterization of neuronal cultures by immunocytochemistry, morphometry, biochemistry and gene expression analysis and molecular genetic methods including cDNA cloning, gene expression in transfected mammalian cells, PCR, and sequence and gene expression analysis.

Both positions require a BS with at least 2 years relevant experience; or a MS in Neuroscience or Cell biology.

We can offer the successful candidate a competitive salary and a comprehensive benefits package. For immediate consideration, please forward your resume to: Human Resources, CNS-197, The DuPont Merck Pharmaceutical Company, E400-2413, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer.

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Merging Strengths...Emerging Opportunities

Request for Proposals The James S. McDonnell Foundation *Pilot Studies for Collaborative Projects in Cognitive Rehabilitation Research*

To encourage the development of cognitive rehabilitation strategies based on research findings linking cognitive science, cognitive psychology, and cognitive neuroscience, the James S. McDonnell Foundation is supporting cognitive rehabilitation research carried out by teams comprised of cognitive neuroscientists, cognitive psychologists, and rehabilitation professionals. This request is for twenty-four month pilot study proposals. Proposed projects should address the development of new cognitive rehabilitation strategies from new research findings in cognitive neuroscience, cognitive science, and instruction.

Projects emphasizing ameliorating the cognitive deficits resulting from acquired brain damage rather than deficits resulting from developmental disorders or neurodegenerative diseases are preferred. All proposals must clearly articulate the cognitive science and cognitive neuroscience foundation underlying the proposed cognitive intervention. The proposals should also address the expected functional benefit the clinical intervention is designed to accomplish and describe how subjects' functional improvement will be quantitated.

Interested applicants **must** obtain the detailed RFP and application guidelines. Complete information is available on our web site: <http://www.jsmf.org>.

The RFP and application guidelines may also be requested by Email, rehab@jsmf.org or by calling 314/721-1532. We encourage you to use Internet or Email when possible.

Proposals are due June 30, 1997. It is anticipated the awards will be announced in October, 1997.

Contact: Susan M. Fitzpatrick, Ph.D., Program Officer, James S. McDonnell Foundation, 1034 S. Brentwood Blvd., Suite 1850, St. Louis, MO 63117. Internet: <http://www.jsmf.org> Email: susan@jsmf.org

Director, Office of Research and Applications National Environmental Satellite, Data and Information Service (NESDIS) (A Senior Executive Service Position in the Federal Government)

**Department of Commerce
National Oceanic and Atmospheric Administration (NOAA)
Director, Office of Research and Applications
\$100,526 - 122,688 Annually**

The candidate selected for this position will have direct supervisory responsibility for all aspects of the office activities including: monitoring and analysis of existing programs; planning and coordinating potential new programs; interfacing with the other offices of NESDIS and with relevant laboratories in other agencies, universities, and foreign countries; budget preparation and tracking; management of resources (personnel, funds, equipment); and management of the structure and staffing of the office.

Mandatory Professional/Technical Qualification Requirements:

1. Experience in the administration of research and development programs involving the physical sciences and remote sensing from space.
2. Expert knowledge of satellite remote sensing devices including demonstrated capability to conceive and execute remote sensing programs.
3. Knowledge of and experience in applications of remotely sensed satellite data and transfer of that knowledge to the user community.
4. Professional knowledge of the principles of two or more of the physical sciences, e.g., physics, meteorology, oceanography, the earth sciences, and statistics.
5. Ability to apply the principles of physics, chemistry and mathematical analysis at a sophisticated level to problems of remote sensing of the earth-atmosphere system.

Please contact (301) 713-0534 x206 (301-713-0973 [TDD]) or Internet - [Bridget C. Clark@NOAA.GOV](mailto:Bridget.C.Clark@NOAA.GOV) for an announcement package, including mailing instructions. Refer to announcement number **NOAA #96-13**. This vacancy closes on **February 20, 1997**.

NOAA Values a Diverse Workforce and is
an Equal Opportunity Employer



POSITIONS OPEN

A **POSTDOCTORAL POSITION** is available to study growth factor interactions with the extracellular matrix (see *J. Biol. Chem.* 271:17949, 1996; *J. Biol. Chem.* 271:23043, 1996). Applicants should have experience in biochemistry, cell biology, or molecular biology research. Interested candidates should send curriculum vitae and the names of three references to: **Matthew Nugent, Ph.D., Department of Biochemistry, Boston University School of Medicine, 80 East Concord Street, Room L912, Boston, MA 02118. FAX: 617-638-5337; Email: nugent@med-biochem.bu.edu.**

POSTDOCTORAL POSITION(S) available to study neuronal voltage dependent calcium channels and their roles in neuronal signaling. Ph.D. with experience in molecular biology and protein biochemistry is desirable. Will have the opportunity to explore new ideas and techniques. Send application and three letters of references to: **Dr. Ji-fang Zhang, Department of Pharmacology, University of Pennsylvania, 3620 Hamilton Walk, Philadelphia, PA 19087. Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans.**

Applications requested for a **POSTDOCTORAL** position to study the localization and contribution of prostaglandin E receptors to atopic asthma. Training in immunocytochemistry, *in situ* hybridization, and cell culture techniques essential. Send curriculum vitae and names of three references to: **Barbara Meyrick, Ph.D., Center for Lung Research, Vanderbilt University Medical Center, MCN T-1217, Nashville, TN 37232-2650. FAX: 615-343-7448; Email: barbara.meyrick@mcmail.vanderbilt.edu. Vanderbilt University is an Equal Opportunity/Affirmative Action Educator and Employer.**

POSTDOCTORAL POSITION available to conduct research in molecular mechanisms of anticancer drug-induced apoptosis, as well as cloning, transfection and expression of genes that may regulate apoptosis in human leukemia and cancer cells. Send curriculum vitae and three references to: **Kapil N. Bhalla, M.D., Professor of Medicine, Division of Hematology/Oncology, Winship Cancer Center—Emory University, 1365-B Clifton Road, N.E., Atlanta, GA 30322. Emory University is an Equal Employment Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION to study molecular mechanisms of ion transport in yeast. Focus is on Ca^{2+} and Na^{+} ATPases, and antiporters. Applicants should have a Ph.D. and experience in at least two of the following areas: molecular biology, mutagenesis, yeast genetics, and membrane proteins. Send curriculum vitae and names of three references to: **Dr. Rajini Rao, Department of Physiology, The Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. Email: rajini_rao@qmail.bs.jhu.edu.**

POSTDOCTORAL FELLOWSHIPS in cardiovascular biology at Harvard School of Public Health. One project examines molecular causes for thrombus resistance to lysis *in vivo*; the other studies molecular mechanisms of secretion by activated platelets. Research expertise in these areas or in cell biology, biochemistry, thrombosis, or physiology is desired. Reply with curriculum vitae, and three names of three referees to: **Dr. Guy Reed, Harvard SPH II-127, 665 Huntington Avenue, Boston, MA 02115 or reed@cvtlab.harvard.edu.**

POSTDOCTORAL POSITIONS are available for structure-function studies of G-protein coupled receptors and for expression cloning of novel receptors. A strong background in molecular biology is preferred. Send curriculum vitae and three letters of recommendation to: **Michael R. Lerner, M.D., Ph.D., University of Texas Southwestern Medical Center at Dallas, Dermatology Department, 5323 Harry Hines Boulevard, Dallas, TX 75232-9069. FAX: 214-648-9292; Email: mrlerner@aol.com. U.T. Southwestern is an Affirmative Action/Equal Opportunity University.**

POSTDOCTORAL POSITION

Position available immediately to study the role novel gene products play in prostate cancer progression. Ph.D. required with strong background in molecular and tumor biology and biochemistry. Previous experience with mice necessary. High motivation and ability to work independently essential. Send curriculum vitae and three letters of reference to: **Robert E. Reiter, M.D., Department of Urology, UCLA School of Medicine, Box 951738, Los Angeles, CA 90095. FAX: 310-206-5343; Email: rreiter@surgery.medsch.ucla.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS available. Now through 1997 to study the regulation of peptide hormone biosynthesis. Funding secure for three years; laboratories are modern and well-equipped. Studies involve production and enzymatic analysis of recombinant prohormone convertase (PC) forms as well as cell biological studies of PCs (*J. Cell Biol.* 129:1641, 1995; *PNAS* 93:4919, 1996; *J. Biol. Chem.* 271:23582, 1996). Send curriculum vitae, with references, to: **Dr. Iris Lindberg, Department of Biochemical and Molecular Biology, LSU Medical Center, 1901 Perdido Street, New Orleans, LA 70112 (or by Email: ilindb@lsu.edu). LSUMC is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIP

The Fox Chase Cancer Center is seeking a candidate with experience in molecular biology and biochemical genetics to participate in studies on mechanisms of eukaryotic gene regulation in oxidative/chemical stress. The studies will involve the use of tissue culture and animal (transgenic and knockout) model systems. Candidates with less than three years of experience after Ph.D. will be preferred. Send curriculum vitae and three letters of reference to: **Dr. Anil Jaiswal, c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS are available immediately to study mechanisms of drug-induced neurotoxicity and renal toxicity. Ongoing projects include examination of the chemical-induced stress response, interaction of chemicals with chromatin, and signal transduction. Experience in molecular or cellular biology is required. Applicants must have a Ph.D. in biochemistry, molecular biology, or related field. Please send curriculum vitae and arrange for three letters of reference to be sent to: **Dr. Terrence J. Monks, Division of Pharmacology and Toxicology, College of Pharmacy, University of Texas at Austin, Austin, TX 78712. FAX: 512-471-5002; Email: scouser@mail.utexas.edu.**

POSTDOCTORAL POSITION

POSTDOCTORAL FELLOW position available in molecular mechanisms of bacterial pathogenesis. Projects involve genetic regulation of capsule and lipooligosaccharide expression in the human pathogen *Neisseria meningitidis*. Strong background in molecular biology and microbiology required. Please send curriculum vitae and three references to: **Dr. David Stephens, Emory University School of Medicine, Department of Medicine, Division of Infectious Diseases, 69 Butler Street, Atlanta, GA 30303. Emory University is an Equal Opportunity Employer.**

ASSOCIATE RESEARCH ANALYST Career Change Opportunity

New York Stock Exchange-listed investment bank seeking individual interested in career change to Wall Street. Firm specializes in areas of health care and technology, focusing on small to mid-size growth companies. Expanding biotech research effort creates need for additional analyst as associate to Managing Director. Candidate needs research experience in life sciences; good writing, verbal and interpersonal skills; ability to work independently. Send résumé to: **Franklin Berger, Inc., 200 Park Avenue, 24th Floor, New York, NY 10166.**

POSTDOCTORAL POSITION TUMOR SUPPRESSOR GENE RESEARCH DUKE UNIVERSITY

Position available immediately in a NIH-funded study to investigate the role of the genomic imprinted M6P/IGF2 receptor tumor suppressor gene in carcinogenesis. Applicants with a Ph.D. or M.D. and a strong molecular biology background should submit their curriculum vitae to: **Dr. Randy L. Jirtle, Box 3433, Duke University Medical Center, Durham, NC 27710. FAX: 919-684-5584; Email: jirtle@radonc.duke.edu. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL AND PREDOCTORAL POSITIONS are currently available at the University of Kentucky to study mechanisms of lipid- and/or cytokine-mediated cell injury. Strong background in cellular/molecular biology is required. Please submit a curriculum vitae and the names and telephone numbers of three references to: **Dr. Michal Toborek, University of Kentucky Medical Center, Department of Surgery, Room MS-105, Lexington, KY 40536. FAX: 606-257-3707.**

POSITIONS OPEN

POSTDOCTORAL POSITION to study central mechanisms of hearing by bats. We examine physiological responses, connective and chemical anatomy, and neuropharmacology of neurons analyzing sonar and communication signals. Experience in related techniques helpful. Applications received before March 1, 1997 receive full consideration. To apply, send curriculum vitae and three references to: **Human Resources, attention: Jeff Wenstrup, Department of Neurobiology, Northeastern Ohio Universities College of Medicine, 4209 State Route 44, Rootstown, OH 44272-0095. Email: jjw@neoucom.edu. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION DEPARTMENT OF ANESTHESIA OPIOID PHARMACOLOGY/PAIN THERAPY

Available immediately, to study opioid analgesic effects, drug interactions and tolerance in animal and human models using pharmacokinetically based approaches. Doctoral degree with pharmacology/pharmaceutics background required; training in analytical chemistry (HPLC, GC), pharmacokinetic analysis/modeling, small animal surgery, and strong computer skills are highly desirable. Send curriculum vitae and names of three references to: **T. H. Kramer, Department of Anesthesia, University of Pennsylvania, 7 Dulles/HUP, 3400 Spruce Street, Philadelphia, PA 19104-4283. Email: kramert@mail.med.upenn.edu. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.**

DEVELOPMENTAL BIOLOGY COLUMBIA UNIVERSITY

POSTDOCTORAL POSITIONS are available to study the molecular mechanisms underlying development. Studies currently focus on how transcription factors regulate developmental decisions in early embryos and neural crest cells using biochemical and molecular genetic approaches. Experience in embryo manipulation, transgenic mouse production, or molecular biology is essential. Send curriculum vitae and names of three references to: **Peter Cserjesi, Ph.D., Department of Anatomy and Cell Biology, Columbia College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION

A **POSTDOCTORAL POSITION** is available to investigate the molecular biology and immunology of Lyme disease. Emphasis shall be placed upon studying the differential expression of *Borrelia burgdorferi* lipoproteins during arthropod and mammalian phases and its relationship to protective immunity. The position offers the opportunity to carry out research in an attractive and dynamic research environment. Candidates should send their curriculum vitae and names and addresses of three professional references to: **Dr. Michael V. Norgard, Vice Chairman, Department of Microbiology, University of Texas Southwestern Medical Center, 6000 Harry Hines Boulevard, Dallas, TX 75235-9048. U.T. Southwestern Medical Center is an Equal Opportunity Employer.**

POSTDOCTORAL FELLOW—DNA REPAIR Johns Hopkins School of Medicine

POSTDOCTORAL POSITION available immediately to develop new approaches to understanding the specificity of DNA repair glycosylases. Expertise in molecular genetics and an interest in structure-based protein engineering are required. Send curriculum vitae to: **Neil Clarke, Ph.D., 708 WBSB, Department of Biophysics and Biophysical Chemistry, Johns Hopkins School of Medicine, Baltimore, MD 21205. Email: neil@groucho.med.jhu.edu.**

POSTDOCTORAL POSITION to study the effect of the Kit oncogene on fetal testis development in mouse. Strong background in molecular developmental genetics required. Application deadline is April 18, 1997. Send curriculum vitae, description of research experience, and names of four references to: **Dr. Claude Nagamine, Department of Cell Biology, Vanderbilt University Medical School, Nashville, TN 37232-2175. Email: claude.nagamine@mcmail.vanderbilt.edu.**

POSTDOCTORAL POSITION available immediately to characterize and clone genes affecting formation of cholesterol gallstones using the mouse model. Experience in cholesterol or bile acid metabolism and genetics or molecular biology desired. Interested candidates should send curriculum vitae and names of three references to: **Beverly Paigen, Ph.D., The Jackson Laboratory, Bar Harbor, ME 04609. FAX: 207-288-6078; Email: bjp@aretha.jax.org.**

Howard Hughes Medical Institute

Administrative Manager

The Howard Hughes Medical Institute conducts scientific research in leading academic medical centers throughout the United States. Currently, we have an opening for an **Administrative Manager** at the HHMI-NIH Research Scholars Program in **Bethesda, MD**. This program provides students enrolled in United States medical schools the opportunity of spending up to one year conducting basic scientific research in an NIH laboratory.

Responsibilities involve managing the administrative elements of the Research Scholars Program including personnel management, budget preparation, purchasing, facilities management, and information systems. Requirements include a master's degree in business or related field (or equivalent experience/credentials), and at least 5 years of progressively responsible managerial experience.

HHMI offers a competitive salary and excellent benefits package. Please send your resume to: **Howard Hughes Medical Institute, Attn: Human Resources Department, 4000 Jones Bridge Road, Chevy Chase, MD 20815-6789**. EOE. <http://www.hhmi.org>



Pharmacia & Upjohn is the world's ninth largest pharmaceutical company. We are involved in areas such as Oncology and Infectious, Metabolic, Inflammatory and Central Nervous Systems Diseases to help people live longer and fuller lives. If you would like an opportunity to make a difference with Pharmacia & Upjohn contact us. As a key member of the Diabetes Research Team, you will participate in the elucidation of molecular mechanisms of insulin resistance, leading to the identification of novel drug targets that may be exploited in the search for drugs to treat type II diabetes mellitus.

BIOCHEMISTS

We seek a candidate with a B.S. or M.S. in biochemistry, cell-molecular biology or a closely related field, with research experience in cell signaling mechanisms, preferably involving insulin action. The self-motivated individual must be able to plan, execute and critically evaluate experiments, be a proficient written and verbal communicator, and be able to function effectively in a team setting. Experience in cell culture, generation and expression of prokaryotic and eukaryotic constructs, immuno-methods (blotting, precipitation, staining), chromatography (TLC, HPLC) and enzyme assays is required.

Experience in techniques for analyzing protein-protein interactions would be an advantage.

Pharmacia & Upjohn offers a stimulating, multi-disciplinary research environment in modern facilities at our Pharma Product Center in Kalamazoo. Our region offers an outstanding mix of cultural and recreational pursuits and an attractive cost of living. Excellent salary and benefit packages are provided.

For confidential consideration, please send your curriculum vitae and a description of research experience to:

**Pharmacia & Upjohn
Recruiting
7000 Portage Road
Kalamazoo, MI 49001**

Please refer to position #336 in your correspondence. Pharmacia & Upjohn is an equal opportunity employer with a commitment to workplace diversity.



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The U.S. Nuclear Regulatory Commission is seeking qualified candidates to fill a prospective vacancy on the ACNW at its Headquarters in **Rockville, MD**.

Applicants must have graduate level education; a minimum of 20 years specific experience in high or low level radioactive disposal programs; and broad experience in a pertinent technical field such as nuclear engineering and technology, nuclear fuel cycle analysis, geoscience, chemistry, and/or materials science.

Additional information and application materials should be obtained by calling the NRC Personnel Smartline at (800) 952-9678. Please refer to Announcement Number 97-1002. Please send your resume or Federal application (OF-612) to: **U.S. Nuclear Regulatory Commission, Attn: Ms. Jude Himmelberg, Office of Personnel, Mail Stop T-2 D32, (Dept. A-97055), Washington, D.C. 20555-0001**. Applications will be accepted until **February 20, 1997**.



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BIOINFORMATICS

SENIOR INVESTIGATOR IN MOLECULAR STATISTICS AND BIOINFORMATICS Biometric Research Branch • National Cancer Institute

Announcement No.: CA-97-2326

The Biometric Research Branch of the National Cancer Institute is establishing a research program on Molecular Statistics and Bioinformatics. Applications are solicited for a scientist to provide leadership in building a research program in the development of statistical, mathematical and computational methodology for the analysis of genome and gene expression data in order to identify cancer associated genes, elucidate their functions, determine the steps of tumor development, identify molecular targets and develop genome based approaches to the prevention, detection, diagnosis and treatment of cancer. The successful candidate will also participate in the development and conduct of a training program in molecular statistics and bioinformatics for statistical, mathematical, physical and computational scientists. This position will offer the candidate the opportunity to collaborate with outstanding scientists in a multidisciplinary national effort, to participate in the discovery of new approaches to reducing cancer mortality and to develop the field of molecular statistics.

Candidates should have a doctoral degree in statistics, mathematics, computer science or life sciences with experience in computational biology and genomics. Statistical scientists with a record of research creativity and productivity but less experience in computational biology are encouraged to apply for appointment at a less senior level.

This is a GS-14/15 Civil Service position with a salary range from \$62,843 to \$95,531 per annum. In addition, a recruitment bonus and relocation expenses may be paid. Physicians may be eligible for a Physician's Comparability Allowance of up to \$20,000 a year. Benefits include a retirement plan, health and life insurance, and sick and annual leave. The position may also be filled through the Commissioned Corps of the U.S. Public Health Service. U.S. citizenship is required.

Applicants should submit an Optional Application for Federal Employment (OF-612) or a current curriculum vitae and bibliography, a statement of research interests, and selected publications to **Mr. Cuong Tran, Personnel Management Assistant, Personnel Management Branch, 6120 Executive Boulevard, Executive Plaza South, Room 550, MSC 7209, Rockville, MD 20852**. **Applications must be postmarked by March 31, 1997**. For further information call Dr. Richard Simon, Chief, Biometric Research Branch, National Cancer Institute (301) 496-0975.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP

Tufts Veterinary School Laboratory of
Aquatic Biomedicine at the
Marine Biological Laboratory, Woods Hole, MA
Start Date: March 1, 1997

Our research looks at the relationship of leukemia in clams to environmental pollution, primarily polychlorinated biphenyls (PCBs). To develop this research, we seek individuals with a strong molecular background who have the following interests: RT-PCR/SSCP, DNA and RNA sequencing and protein purification. This is a 100% funded position for two years with the expectation that the successful candidate will seek external funding to continue his/her research in the laboratory.

Please send a letter of interest along with a minimum of three references, a curriculum vitae, and manuscripts either published or in the press to: Dr. Carol L. Reinisch, Chair, Tufts University School of Veterinary Medicine, North Grafton, MA 01536. Email: creinisch@opal.tufts.edu; FAX: 508-839-7948; Telephone: 508-839-7949. All inquiries will be considered confidential and references will not be contacted without prior permission of the applicant.

POSTDOCTORAL RESEARCH ASSOCIATE

position available for work in a multi-disciplinary laboratory studying cellular and molecular basis of response of developing neural tissues to injury induced by environmental exposure. Developmental endocrine disruption by specific environmental contaminants will also be pursued. Systems include developing mammalian and frog embryos, organotypic brain slice cultures, neural cell line culture, and yeast/human receptor assays, with emphasis at all levels on cytokine and hormonal regulation of neural function. Methods to be employed include molecular biology, confocal microscopy, immunocytochemistry, and calcium measurements. Guaranteed one year position with strong potential for additional years of support. An interest in environmental issues is recommended. Applications will be accepted until position is filled. Contact: Dr. Charles F. Ide, Deputy Director, Center for Bio-environmental Research and Department of Cell and Molecular Biology, Tulane University, 604 Boggs Hall, New Orleans, LA 70118. Telephone: 504-862-8370; Email: cfide@mailhost.tcs.tulane.edu.

Two POSTDOCTORAL POSITIONS are available for candidates with expertise in molecular biology, cellular immunology, and/or the cell cycle. Specific aims include tumor targeting by novel recombinant adenoviruses, mechanisms of IL-12-induced tumor regression, the use of recombinant viruses and dendritic cells to induce T cell immunity against tumor antigens, and the understanding of cellular responses to genotoxic agents. *Candidates must be U.S. citizens or permanent residents*, and have a Ph.D. and/or M.D. degree and less than five years of postdoctoral experience. Send curriculum vitae and a list of references to: Robert Fenton, M.D., Ph.D., NCI-FCRDC, P.O. Box B, Building 567, Room 207, Frederick, MD 21702. Telephone: 301-846-1445; FAX: 301-846-7034; Email: fenton@ncifcrf.gov. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS FUNCTIONAL MOLECULAR EVOLUTION

Two positions to research the evolution of gene expression: 1) the physiological consequences of altered enzyme expression or 2) the functional analysis of promoters. For the first position, experience in cell culture, cellular metabolism, and enzyme assays is desirable. The second position requires either experience in molecular analysis of promoter function or a thorough understanding of evolutionary sequence analyses. Send curriculum vitae, research experience and interest, and names of three references to: Douglas L. Crawford, Division of Molecular Biology and Biochemistry, 5007 Rockhill Road, University of Missouri, Kansas City, MO 64110-2499. Telephone: 816-235-2565; Email: crawd@cctr.umkc.edu. The University of Missouri is an Equal Opportunity/Affirmative Action Employer.

Two POSTDOCTORAL POSITIONS available to study neuroanatomy of rodent and primate limbic system, including hypothalamic/hippocampal neuromorphology (Leranth) and steroid-responsive circuits for male sex behavior (Wood). Send curriculum vitae and three references to: Csaba Leranth or Ruth I. Wood, Department of Ob/Gyn, Yale University School of Medicine, 333 Cedar Street, Box 208063, New Haven, CT 06520-8063. FAX: 203-785-7684; Email: leranthc@maspo3.mas.yale.edu or ruth_wood@qm.yale.edu.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP in molecular biology available immediately for work on signal transduction mechanism in bone cells involving MAP kinase. Salary and benefits competitive. Send letter of interest, curriculum vitae, and names of three references to: Ms. C. Farrell, Min. Met. Lab., P.O. Box 7210, Loma Linda, CA 92354.

UNDERGRADUATE RESEARCH

Several paid RESEARCH positions are available to minority undergraduates during summer 1997 as part of our NSF training grant on the Genetic Mechanisms of Evolution and the University of Oregon Institute of Molecular Biology. *Qualified applicants must be U.S. citizens or permanent residents* and will participate in ongoing biological research at UO on topics involving evolution, genetics, development, ecology, molecular biology, population and conservation biology. To apply, send letter of application, transcript, résumé including statement of interests, and two letters of recommendation by 15 March 1997, to: Summer Program for Undergraduate Research, Department of Biology, 1210 University of Oregon, Eugene, OR 97403-1210. The University of Oregon is an Affirmative Action/Equal Opportunity Employer committed to cultural diversity and compliance with the ADA.

Two POSTDOCTORAL POSITIONS are available for an NMR spectroscopist and a recent biophysics Ph.D. with experience in lipid-protein interactions. Additional experience in molecular biology and recombinant (membrane) protein expression would be desirable for both positions. Our interdisciplinary group studies protein insertion and protein folding in membranes as well as viral spike glycoprotein-mediated membrane fusion using a combined structure/dynamics approach. See our Web site: <http://www.med.virginia.edu/som-bas/physio/profiles/tamm.html>. Please send curriculum vitae, a brief description of previous research experience and career goals and the names and addresses of three references to: Dr. Lukas K. Tamm, Department of Molecular Physiology and Biological Physics, University of Virginia, Health Sciences Center, P.O. Box 10011, Charlottesville, VA 22906-0011.

POSTDOCTORAL POSITION Indiana University Medical Center

Applications are invited for a POSTDOCTORAL POSITION available immediately in the laboratory of Dr. Alonso P. Moreno. A candidate with outstanding potential and dedication to a career in electrophysiological studies is sought to undertake challenging research into the cellular mechanisms involved in the physiological regulation of intercellular communication through cardiac gap junctions. Experience in cell voltage clamp is strongly desired. Send curriculum vitae and names of three references to: Dr. Alonso P. Moreno, Krannert Institute of Cardiology, 1111 West 10th Street, Indianapolis, IN 46202. Email: moreno@kimail.dmed.iupui.edu. An Equal Opportunity/Affirmative Action Employer.

The Center for Insect Science, through a NIH training grant, has two to three two-year POSTDOCTORAL FELLOWSHIPS available for individuals to work at the interface between molecular biology and the biochemistry, physiology, neurobiology, genetics, and ecology of insects. Applicants must have a Ph.D. degree and must be U.S. citizens, noncitizen nationals or permanent residents. Application deadline: February 28, 1997 or until positions are filled. For application information, please Email: insects@cctr.arizona.edu or send curriculum vitae, statement of research interests, and names of three referees to: Search Committee, Center for Insect Science, The University of Arizona, P.O. Box 210106, Tucson, AZ 85721-0106. The University of Arizona is an Affirmative Action/Equal Employment Opportunity/ADA Employer.

POSTDOCTORAL POSITION to study signal transduction pathways and functional responses in neutrophils during bacterial sepsis. The applicant should have a Ph.D. and experience in molecular biology. Experience in tissue culture would be an advantage. Please send curriculum vitae, a letter describing research interests, and three letters of reference to: Dr. Kenneth R. McLeish, Kidney Disease Program, 615 South Preston Street, University of Louisville, Louisville, KY 40292. FAX: 502-852-7642; Email: kmcleish@e-mail.kdp-baptist.louisville.edu.

POSITIONS OPEN

PEDIATRIC POSTDOCTORAL POSITIONS/FELLOWSHIPS are available immediately for pediatric-trained M.D. or M.D./Ph.D.'s in an NIH-sponsored training program with senior investigators in the departments of biochemistry and biophysics, biology, environmental medicine, microbiology and immunology, neurology and pediatrics. Research opportunities include: developmental biology of lower and higher eukaryotes, regulation of gene expression, signal transduction, immunology and pathogenesis of infectious disease. Send curriculum vitae and a brief statement of relevant research experience, interest and career plans to: Richard Insel, M.D., University of Rochester School of Medicine and Dentistry, Department of Pediatrics, 601 Elmwood Avenue, P.O. Box 777, Rochester, NY 14642. Email: rain@bphvax.biophysics.rochester.edu; FAX: 716-271-7512. Applicants must have an M.D., a commitment to an academic career, and be a U.S. citizen, noncitizen national, or a permanent resident. The University of Rochester is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

Villanova University seeks a recent Ph.D. recipient to participate in the teaching of undergraduate courses in genetics and evolution and to teach a graduate (Master's level) course in population genetics. The person selected will be encouraged to conduct research and to assist in directing undergraduate research. This position, a 50/50 teaching/research appointment, will provide experience in an environment that encourages faculty/student interaction within and outside the classroom. Submit a curriculum vitae, statements of teaching and research goals, undergraduate and graduate transcripts and the names, addresses, telephone numbers and Email addresses of three references to: Dr. R. W. Marks, Department of Biology, Villanova University, Villanova, PA 19085. Telephone: 610-519-4863; Email: marks@ucis.vill.edu. Applications will be reviewed beginning February 10, 1997 and will be reviewed until February 28, 1997 or until the position is filled.

HARVARD MEDICAL SCHOOL MASSACHUSETTS GENERAL HOSPITAL

A POSTDOCTORAL FELLOWSHIP in the regulation and manipulation of the hematopoietic stem cell is available. Experience in hematopoietic cell culturing, gene transduction technology and molecular biology is required. Recent projects described in: *Science*, 267:104-108, 1995; *Nature Medicine*, 2:46-51, 1996; *PNAS*, 93:13158-13163, 1996. Send curriculum vitae and statement of interest to:

David T. Scadden, M.D.
Massachusetts General Hospital
13th Street, Building 149, Room 5212D
Charlestown, MA 02129
Email: scadden.david@mgh.harvard.edu
FAX: 617-726-4691

POSTDOCTORAL IN DRUG DESIGN AT JOHNS HOPKINS

Opening available for an individual with experience in computer aided drug design to take a major role in an ongoing project for the discovery of new classes of compounds that inhibit the polymerization of hemoglobin in sickle cell disease. Excellent opportunity to learn x-ray crystallography, protein purification, and other laboratory techniques. Strong intellectual environment in molecular biophysics. Send curriculum vitae including names of three references to: Eaton Lattman, Department of Biophysics, Johns Hopkins University, Baltimore, MD 21218-2684. Telephone: 410-516-0151; FAX: 410-516-4118; Email: lattman@jhunix.hcf.jhu.edu. The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS (possibly two) available immediately to study molecular structure and structure-function correlations of ion channels, both in purified plasma membranes and reconstituted in lipid bilayers in the laboratory of Dr. R. Lal. Techniques include integrated atomic force microscopy, light fluorescence microscopy, and electrophysiology. Ph.D. and experience in membrane biochemistry and channel reconstitution or atomic force microscopy required. The appointment will be for one year with possibility of reappointment for up to three years. Send curriculum vitae and names of referees to: Director, Neuroscience Research Institute, University of California, Santa Barbara, CA 93106. Apply by February 1, 1997. Email: rlal@physics.ucsb.edu; FAX: 805-893-2005. An Equal Opportunity/Affirmative Action Employer.

ANNOUNCEMENT

Call For Papers

12th Annual Conference on Contaminated Soils

Analysis, Site Assessment, Fate, Environmental and Human Risk Assessment, Remediation and Regulation

October 20-23, 1997

University of Massachusetts at Amherst

Contributed Papers and Posters are invited for presentation in the general sessions in the following areas:

- chemical analysis
- hydrocarbon identification
- site assessment/field sampling
- regulatory programs and policies
- environmental fate and modeling
- soil chemistry
- hazard, exposure, and risk assessment
- standard remedial technologies/corrective actions
- innovative remedial technologies

Presentations for SPECIAL SESSIONS related to the following areas are encouraged:

- radionuclides
- chlorinated hydrocarbons, pesticides and heavy metals
- ecological risk assessments
- phytoremediation
- state regulatory programs
- innovative technologies
- cleanup standard setting
- risk based cleanups

- diesel fuel contamination and railroad cleanups
- Sponsored by Association of American Railroads

DEADLINE for submission is February 10, 1997

For More Info Contact The Conference Directors:

(413) 545-2934 Edward J. Calabrese, Ph.D.
Paul T. Kostecki, Ph.D.

Creating The Premier Gene Therapy Discovery Company

GENEMEDICINE, INC. is pioneering the pharmaceutical use of genes to treat disease. Our interdisciplinary team of scientists is currently developing gene medicines to treat cancer, asthma, infectious disease and immune disorders. GENEMEDICINE is seeking to appoint a senior scientist. Join our thriving research community in applying your skills in to create new therapies for treating human disease.

SENIOR SCIENTIST - CANCER PROGRAM

You will join our team of researchers that is assessing the pharmacology and efficacy of cancer gene medicines in *in vivo* models. You will use your knowledge of a variety of tumor models and your expertise in *in vivo* pharmacology, physiology and experimentation to evaluate and select lead product candidates.

The successful candidate will have a Ph.D. in Pharmacology or Immunology, with at least 5 years postdoctoral experience and demonstrated knowledge of tumor biology. He/she will have successfully worked within an interdisciplinary team environment including managing technical staff. Candidates will have excellent oral and written communication skills, a productive publication record and preferably project management skills.

GENEMEDICINE, INC. offers career growth and a highly competitive compensation and benefits package. For confidential consideration, please send resume with salary requirements to: **GENEMEDICINE, INC., Attn: Human Resources, 8301 New Trails Drive, The Woodlands, TX 77381-4248; Fax (713) 364-0858. E-Mail: stankk@gmiatt.attmail.com** EOE.



GENEMEDICINE, INC.

Call for Nominations 1997

Research is often its own reward...

\$100,000 Diabetes Care Research Award presented by Boehringer Mannheim/Juvenile Diabetes Foundation International

Boehringer Mannheim and the Juvenile Diabetes Foundation International announce the call for entries for the 1997 Diabetes Care Research Award. The award was created to stimulate innovation in the field of diabetes research leading to practical advances in prevention, detection, treatment or cure of diabetes. The \$100,000 award is the most substantial in this field.

Nominations are invited from diabetes researchers, age 45 or younger, who are engaged in basic or clinical research which has been partially performed in the past five years.

The search continues for the 1997 award winner.

Entries must be postmarked by Monday, March 31, 1997. For further information, or to receive nomination forms, contact:

Dr. Joachim Thiery
Boehringer Mannheim Patient Care
Telephone: +49 621 759 3142
Fax: +49 621 759 4179



Juvenile Diabetes Foundation International
The Diabetes Research Foundation



PPI

**PRAECIS
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PRAECIS' mission is to discover, develop and commercialize pharmaceuticals through integration of proprietary combinatorial technologies and high-throughput screening capabilities. We are an emerging biotechnology company involved in innovative research in Prostate Cancer, Alzheimer's Disease and Growth Factor Biology. Our first drug is in Phase I trials and we are in the process of filing additional IND applications.

DIRECTOR AND SENIOR STAFF CELL BIOLOGIST

We currently seek two scientists to join our exciting drug discovery program in the area of Cell Biology. Applicants should have a minimum 3+ years' relevant postdoctoral or industrial experience in one or more of the following areas: gene expression, cell based assays, tissue and primary culture disease models. Applicants for Director should have experience with development of new research programs. Job Code: HB.

ASSISTANT/ASSOCIATE DIRECTOR PRECLINICAL DEVELOPMENT

We are looking for an individual who will design, implement and monitor preclinical safety and efficacy studies both in-house and under contract. Applicants for this position should have a Ph.D or equivalent and 3+ years of pharmaceutical industry experience in development of GLP protocols for pre-clinical biology. Experience in design of toxicology and pharmacokinetic studies and analysis of PK and ADME data is essential. Successful candidate will develop and execute preliminary non-clinical studies at PRAECIS and oversee GLP toxicology studies under contract. Job Code: CM.

Please send resumes to: Mary O'Malley, Human Resources, with appropriate code indicated on envelope, at PRAECIS Pharmaceuticals, Inc., One Hampshire St., Cambridge, MA 02139. An Equal Opportunity Employer.

POSITIONS OPEN

WAYNE STATE UNIVERSITY POSTDOCTORAL FELLOWS

POSTDOCTORAL RESEARCH ASSOCIATE position available January 1997 for recent (Ph.D. or M.D./Ph.D.) graduates in cellular or molecular biology with an interest in the induction of apoptosis as a target for new cancer therapies. Project involves the study of signaling mechanisms and genes which regulate apoptosis and how these apoptotic regulators are influenced by reactive oxygen species and other free radicals which may be generated by drugs or high LET radiation. This study will place an emphasis on prostate cancer. The work will involve state of the art molecular and cellular biological techniques. Candidates should have demonstrated experience with standard molecular biology and cell biology techniques. An interest in signal transduction mechanisms is desirable. Preference will be given to candidates with demonstrated research ability and strong written communication skills. Minimum salary \$27,000, dependent upon experience. **Drs. Kenneth V. Honn and Jeffrey Forman** of the Department of Radiation Oncology are the project directors. Please send brief statement of research interests, capabilities and goals, curriculum vitae, addresses, fax/telephone numbers, and three references to: **Dr. Kenneth V. Honn, Professor, 431 Chemistry, Wayne State University, Detroit, MI 48202. Email: khonn@cms.cc.wayne.edu.** *Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at Wayne State University are smokefree. Wayne State University—people working together to provide quality service.*

RESEARCH TRAINING

FOR M.D. AND/OR PH.D. FELLOWS IN CARDIOVASCULAR DISEASE University of Alabama at Birmingham (UAB)

Applications are being accepted for **POSTDOCTORAL POSITIONS** in this NIH training program starting July 1, 1997. *Participation by minority candidates is encouraged. These NIH positions are limited to U.S. citizens and permanent residents.*

Mechanisms and Consequences of Coronary Heart Disease (CHD): The Division of Cardiovascular Disease at UAB offers postdoctoral clinical and basic research fellows (M.D. and/or Ph.D.) a minimum of two years of intensive basic research training in a multidisciplinary program in CHD. This program will provide the knowledge, skills, and motivation for young scientists to become independent and productive investigators in vascular biology and cardiovascular research. Hands-on training will be provided in areas related to the biochemical, molecular and cellular pathophysiological mechanisms underlying the initiation, mechanisms, and consequences of CHD.

Inquiries: **Francois M. Booyse, Ph.D., University of Alabama at Birmingham, 845 19th Street South, BBRB 809, Birmingham, AL 35294-2170.**

POSTDOCTORAL POSITION

Center for Surgical Research, Brown University

POSTDOCTORAL POSITION available immediately to study cell and organ function following hemorrhagic shock. An M.D., Ph.D. or equivalent degree in physiology/biochemistry is required. Emphasis on cell, organ physiology, and molecular biology is desired. Previous experience with small animal surgery, cardiovascular function determination, general molecular biological techniques (RNA/DNA, RT-PCR, *in situ* hybridization), and biochemistry techniques such as signal transduction is essential. Starting salary is \$25,000 to \$28,000 with benefits dependent on qualifications. Mail or fax curriculum vitae, brief summary of salient research experience, and names and addresses of three references to: **Dr. Irshad H. Chaudry, Director, Center for Surgical Research, Middle House II, Rhode Island Hospital, 593 Eddy Street, Providence, RI 02903. Telephone: 401-444-5582; FAX: 401-444-3278.**

POSTDOCTORAL POSITION to study the genetic and cellular basis of neuromuscular disease. Multidisciplinary approach includes mutation screening of human DNA, electrophysiological, histochemical, and fluorescent probe studies in transgenic and knockout mice. A U.S. earned Ph.D. with experience in molecular biology and/or confocal microscopy is preferred. Application deadline: March 31, 1997. Send curriculum vitae and names of three references to: **Dr. C. M. Gomez, Department of Neurol, Box 295, University of Minnesota, 420 Delaware Street S.E., Minneapolis, MN 55455. Email: gomez001@maroon.tc.umn.edu.** *The University of Minnesota is an Equal Opportunity Employer and Educator.*

POSITIONS OPEN



POSTDOCTORAL POSITION

Kemin Industries, Inc., a world leader in specialty products for animal agriculture, is continuing to expand its research and development base at its worldwide headquarters located in Des Moines, Iowa. A **POSTDOCTORAL POSITION** for a biochemist is available immediately to study basic and applied aspects of nutrient digestion and absorption upon supplementation of animal feed with digestive enzymes. Strong background in enzymology and protein chemistry is required; experience in carbohydrate chemistry and animal physiology is a plus. No smoking is allowed on the premises. Job offer is conditional on passing a physical, including a drug screen.

Send curriculum vitae and names of three references to: **Dr. F. Brinkhaus, Kemin Industries, Inc., 2100 Maury Street Box 70, Des Moines, IA 50301-0070.** *An Equal Opportunity Employer.*

PRE- AND POSTDOCTORAL FELLOWSHIPS AVAILABLE

Fellowships supported by an Institutional National Research Service Award (NIH), in the area of lipid/lipoprotein metabolism and cardiovascular disease are available. Research topics include regulation of hepatic production and secretion of lipoproteins; hormonal regulation of lipoprotein gene expression and apoB mRNA editing; genetic regulation of fatty acid oxidation and carnitine palmitoyltransferase; regulation of cholesterologenesis; phosphoinositides and calcium in transmembrane signaling; signaling mechanisms in the cardiac actions of epidermal growth factor; metabolic aspects of lipid absorption; autonomic mechanisms and vasoactive peptides in arachidonic acid and prostaglandin metabolism; regulation of lipolysis in adipocytes; the role of leptin in obesity and its genetic and hormonal regulation; the role of the β -adrenergic receptor in thyroid hormone action and relationship to lipid metabolism. *Applicants must be U.S. citizens or permanent residents. Minorities and women are especially encouraged to apply.* Please send curriculum vitae and names of three references to: **Murray Heimberg, Ph.D., M.D., Department of Pharmacology, University of Tennessee, Memphis, 874 Union Avenue, Memphis, TN 38163. Telephone: 901-448-6000, FAX: 901-448-7300.** *The University of Tennessee, Memphis is an Equal Employment Opportunity/Affirmative Action/Title VII/Title IX/Section 504/ADA Employer.*

POSTDOCTORAL AND RESEARCH FACULTY Chemical Physics and Physics Experimentalists and Theorists

FIVE POSITIONS for exceptionally talented scientists in the following areas: quantum control of chemical reactions with tailored ultrafast light pulses, ultrafast x-ray diffraction and absorption, dynamics of biomolecular and biological processes imaged with light pulses, and high intensity light driven physics, including x-ray lasers, high harmonics, and laser driven particle acceleration. For more information about these positions and the group, see our Web site: <http://www-wilson.ucsd.edu>.

Salaries and positions commensurate with experience and qualifications. Applicants please send curriculum vitae, statement of research interests, and one letter of recommendation to: **Prof. Kent R. Wilson and C. P. J. Bart, Department of Chemistry, University of California, San Diego, La Jolla, CA 92093-0339.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITION is available for an immunologist in The Children's Institute for Surgical Science at The Children's Hospital of Philadelphia and The University of Pennsylvania. Interests of the laboratory involve in utero hematopoietic stem cell transplantation and prenatal gene therapy focused on strategies for tolerance induction to allogeneic and xenogeneic cellular antigen as well as to adenoviral and transgene encoded protein. Resources available to the laboratory include the Institute for Human Gene Therapy at The University of Pennsylvania. A recent Ph.D. and a strong background in developmental immunology are preferred. Interested candidates should send a curriculum vitae and names of three references to: **Dr. Alan W. Flake, Children's Hospital of Philadelphia, Abramson Pediatric Research Center 1102D, 34th Street and Civic Center Boulevard, Philadelphia, PA 19104; Email: flake@email.chop.edu.**

POSITIONS OPEN

WAYNE STATE UNIVERSITY POSTDOCTORAL FELLOWS

Two **POSTDOCTORAL/RESEARCH ASSOCIATE** positions are available in January 1997 for recent graduates (Ph.D. or M.D./Ph.D.) in cellular or molecular biology with interests in signal transduction and cancer invasion of metastasis. The first project involves the signaling mechanism(s) of lipoxigenase derived bioactive lipids, and the second involves the cloning of a novel lipid molecule receptor and lipoxigenase enzyme binding proteins. The work involves state-of-the-art molecular and cellular biological techniques. Candidates should have experience in one or more of the following areas: molecular biology including cloning, protein-protein interaction, signal transduction or eicosanoids. Preference will be given to candidates with demonstrated research ability and strong written communication skills. Minimum salary: \$27,000 dependent upon experience. Please send a brief statement of research interest, capabilities and goals, curriculum vitae, addresses, fax/telephone number(s), and three references to: **Dr. Kenneth V. Honn, Professor, 431 Chemistry, Wayne State University, Detroit, MI 48202. Email address: khonn@cms.cc.wayne.edu.** *Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at Wayne State University are smokefree. Wayne State University—people working together to provide quality service.*

POSTDOCTORAL POSITION

Seeking Ph.D. in immunology, molecular biology, biochemistry, or developmental biology to analyze mutations and their functional consequences in the Fas gene in the human and in animal models. Experience in cloning, DNA sequence analysis, site directed mutagenesis and transfection highly desirable. Position is grant funded and is available for three years. Interested persons should send a letter and curriculum vitae to: **Alvin Davis, III, M.D. and Charles L. Sidman, Children's Hospital Medical Center, Division of Nephrology, 3333 Burnet Avenue, Cincinnati, OH 45229-3039. FAX: 513-636-7407; Email: aldavis@chmcc.org.** *Children's Hospital Medical Center is an Equal Opportunity Employer.*

ANNOUNCEMENT

WANTED: DEAD OR ALIVE! KO MOUSE MUTANT PHENOTYPES

We are compiling an encyclopedia of "knockout" mouse mutant phenotypes. To ensure that the most current and accurate information on your mutants, published or unpublished, is included in this volume, please contact us by March 31, 1997 with your entry. You can fill in the form at our project Web site at: <http://aris001.oci.utoronto.ca/webfm/survey.html>, or you can contact: **Dr. Tak W. Mak, Ontario Cancer Institute, 610 University Avenue, Toronto, ON Canada M5G 2M9; FAX: 416-204-5300; Telephone: 416-204-2236.** Thank you!—**Tak W. Mak, Editor-in-Chief, Joseph Penninger, John Roder, Janet Rossant and Mary Saunders, Section Editors.**

COURSES & TRAINING

RECENT ADVANCES IN CONSERVATION GENETICS The Smithsonian Institution—NOAHS Center Summer 1997, August 10 to 23

At NOAHS-Conservation and Research Center, Front Royal, Virginia, outside Washington, D.C., a two-week intensive hands-on course is offered in methods, applications, and interpretation of molecular genetic analysis of free-ranging endangered species. This course will be taught by a team of scientists whose personal experiences offer a variety of expertise in this important new field. Learn from recognized experts how to develop and interpret a wide range of genetic data using real examples, laboratory demonstrations, and a variety of computer programs. Tuition: \$1,950 (includes housing and meals). Course Director: **Stephen J. O'Brien, Research Director, NOAHS Center.** For an application or inquiries contact:

**Ms. Jan Martenson, Coordinator
NCI/FCRDC
P.O. Box B**

**Frederick, MD 21702-1201
Email: noahscrc@mail.ncifcrf.gov
FAX: 301-846-1686**

**Telephone: 301-846-1299
Application deadline: March 15, 1997**



Systems Research Laboratories, an operation of Calspan SRL Corporation, is an advanced research services company, supporting government and industry customers. Our San Antonio, Tx. facility is currently looking for professionals in the following areas:

Microwave Radiation Research Scientist

The right individual for this position will provide research support for the study of bio-behavioral effects of high-intensity microwave radiation on organisms. Emphasis of tasks is on applied research. This position requires a detail-oriented scientist who is self-motivated, adaptable to rapidly changing tasks, and can work as an independent researcher, as well as part of a multi-disciplinary team. A B.S./B.A. in biology or biophysics, with three or more years of experience in radiation research is required. An M.S. or Ph.D. is desirable. A record of publications commensurate with experience is also required.

High-Intensity Acoustics Research Scientist

The right individual for this position will provide research support for the study of bio-behavioral effects of high-intensity acoustics on organisms. Emphasis of tasks is on applied research. This position requires a detail-oriented scientist who is self-motivated, adaptable to rapidly changing tasks, and can work as an independent researcher, as well as part of a multi-disciplinary team. A B.S./B.A. in biology or biophysics, with three or more years of experience in acoustics research, and a knowledge of ultrasound techniques is required. An M.S. or Ph.D. is desirable. A record of publications commensurate with experience is also required.

We offer a competitive compensation and benefits package, in addition to a dynamic team environment and tremendous opportunity for professional growth and advancement. All interested applicants should fax or mail their résumé in confidence to:

SYSTEMS RESEARCH LABORATORIES

9601 McAllister Freeway, Suite 1165

San Antonio, TX. 78216

ATTN: Research Dept. C.

Fax: 210.308.7498

U.S. citizenship required; EOE/MFHV

SCIENTIST

Protein Chemistry

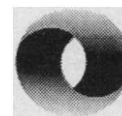
Genelabs is a dynamic biopharmaceutical company located in the San Francisco Bay Area. We're focused on the discovery of small organic molecule gene-regulating drugs, and our continued growth has created a great opportunity in our Protein Chemistry Group for a qualified Ph.D. level Scientist.

You will purify & characterize proteins and small molecules from a variety of recombinant and natural sources. You will also be directly involved in the determination of invention and product feasibility, and are expected to bring substantial knowledge of state-of-the-art principles & theories to the table. The position requires demonstrated knowledge of microanalytical protein chemistry with a strong emphasis on microbore/capillary HPLC techniques. Candidates must be organized team players with exceptional leadership & analytical skills. Familiarity with mass spectrometry & 2 dimensional electrophoretic techniques helpful.

We offer attractive compensation schemes, full medical benefits and an exciting research environment that recognizes & rewards achievement. To apply, please send your CV along with 3 professional references to: **Genelabs Technologies, Inc., Human Resources Department, Attn: Job# SC0117-PC, 505 Penobscot Drive Redwood City CA 94063**

Fax: (415) 368-3198

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TECHNOLOGIES, INC.



Moving forward. With a new manufacturing facility, expanding global markets, and constant scientific innovation, Genzyme has become a major, diversified healthcare products company. **Making progress.** Our people are enthusiastic and focused, achieving success in the areas of therapeutics, diagnostic products and services, as well as pharmaceuticals and fine chemicals. **Looking ahead.** Many words can describe a goal, an achievement, or even an opportunity. But only one word can describe an opportunity like this. **Genzyme.**



Framingham, MA location

RESEARCH SCIENTIST Gene Expression

We seek a professional to join this multi-project-oriented group involved in the early stage of recombinant protein expression. Responsibilities include the expression and analysis of recombinant proteins in mammalian host cell systems, characterization of cell lines for FDA submissions and the examination of cell culture responses under manufacturing conditions. Candidates should possess a Ph.D. in Life Science and at least 4 years' molecular biology and tissue culture experience. **Job Code: PK-642**

Qualified candidates should forward their resume, indicating job code, to: Genzyme Corporation, Human Resources Dept., One Kendall Square, Cambridge, MA 02139.

Genzyme uses optical scanning technology. Please use a 12 point font with minimal use of bullets, italics, underlining and bolding.

Genzyme rewards success with an excellent compensation and benefits package, including 3 weeks' paid vacation, a 401(k) plan with a company match, extensive insurance benefits and an Employee Stock Purchase Plan. An equal opportunity employer committed to a culturally diverse workforce.

ADVANCING HEALTHCARE PRODUCTS AND SERVICES WORLDWIDE

POSTDOCTORAL FELLOW

BIOMEDICAL RESEARCH

SAIC Frederick, a division of Science Applications International Corporation, has immediate Postdoctoral Fellow opportunities in the AIDS Vaccine Program (AVP) at the NCI's Frederick Cancer Research and Development Center (NCI-FCRDC) located in Frederick, MD. The AVP is a multidisciplinary research program and the principal laboratory collaborating with the NCI in its investigation of human retrovirus infections.

CELLULAR PROTEIN VACCINE

PhD in molecular biology/cell biology with 0-3 years of experience in HIV-1 and SIV desired. Will study the components of the virus and cell involved in virus infection and assembly; will study the influence of cellular proteins on viral translation and infectivity.

HIV NUCLEOCAPSID

PhD in physical biochemistry/biophysics with 0-3 years of experience in nucleic acid-protein interactions and fluorescence spectroscopy. Will investigate the biophysical properties of retroviral NC proteins, in particular their dual function in binding to nucleic acids and divalent metal ions.

PROTEIN CHEMISTRY

PhD in molecular biology/immunology with 0-3 years of experience with HIV-1 and SIV. Will use recombinant DNA techniques to design and construct genetically engineered non-infectious virus-like particles to be explored as potential vaccines.

RETROVIRAL PATHOGENESIS

PhD in molecular virology/immunology with 0-3 years of experience in HIV-1 and SIV. Will identify and characterize viral and host factors involved in determining different patterns of viral replication *in vivo*, and associated clinical courses, in the HIV and SIV systems with emphasis on quantitative molecular methods.

You'll work in a campus-like environment near Baltimore, MD, and Washington, DC. SAIC Frederick offers a salary commensurate with credentials and an attractive benefits program, including insurance, 401(k) savings program, stock purchase plan and more. For consideration, forward CV, references and salary requirements to: SAIC Frederick, NCI-FCRDC, PO Box B, Frederick, MD 21702, ATTN: Barbara J. Norton-Gill; e-mail: hr@mail.ncicrf.gov

"We value diversity in the workplace."



SAIC Frederick
A Division of Science Applications
International Corporation

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M/F

SR. RESEARCH SCIENTIST- BIOLOGIST, Ph.D./M.S. ONCOLOGY/IMMUNOLOGY



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HEALTHCARE

This is your opportunity to join Wyeth-Ayerst Research, a major division of Fortune 150 American Home Products Corporation, in the Oncology/Immunology Department of our pharmaceutical research facility in Pearl River, New York.

Demonstrating a high level of initiative, you will coordinate in vivo pharmacological experiments utilizing previously encountered procedures as well as procedures based on new principles and technologies. Your expertise will enable you to troubleshoot problems, analyze data and draw final conclusions from the obtained results.

Our ideal candidate will have a Ph.D. degree with 2-4 years experience, or an M.S. degree with a minimum of 8 years experience, which must include performing in vivo experiments in an oncology setting, utilizing sterile techniques, and performing large scale tissue cultures. The selected candidate will be expected to keep current on new procedures in the laboratory. Prior supervisory experience is also required.

Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Please send your resume with salary requirements to: **Wyeth-Ayerst Research, Human Resources Department, Position #OPSCI-2313, P.O. Box 7886, Philadelphia, PA 19101-7886**, or fax your resume (in fine mode if possible) directly into our centralized Research resume database at (610)

989-4854. e-mail: jobs@RAMALLI.wyeth.com (ASCII format, no attachments, subject: resume). Principals Only. Equal Opportunity Employer, M/F/D/V.

**WYETH
AYERST**

PROFESSOR AND HEAD DEPARTMENT OF BIOCHEMISTRY University of Iowa College of Medicine

The University of Iowa, College of Medicine is seeking an outstanding individual to provide leadership as executive officer of the Department of Biochemistry.

Candidates are expected to have the PhD, MD or comparable degree, an active and internationally recognized research program, and a strong record of commitment and effectiveness in promoting medical, graduate, and undergraduate education. The individual selected will have demonstrated administrative ability and experience, excellent communication and interpersonal skills, and a dynamic and innovative approach to leadership that will build on existing strengths in research and teaching. With 22 faculty, the Department has active research programs in molecular biology, cell biology and biophysical chemistry. Additional information about research and educational programs is available on the Web at: www.medadmin.uiowa.edu/deptment/biochem/biochem.htm.

Please direct applications, including curriculum vitae, list of publications and names of three or more references to the address below. Applications submitted by March 1, 1997 are assured of full consideration.

Dr. Robert E. Fellows, Chair
Biochemistry Search Committee
The University of Iowa College of Medicine
c/o Mary Jo Young
200 CMAB
Iowa City, IA 52242

The University of Iowa is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply.



CALYDON is a biopharmaceutical research and development company creating new therapies for prostate cancer. We are seeking highly-motivated scientists in the following fields:

Ph.D., M.S., B.S.
GMP Manufacturing

specializing in development and manufacturing. Adenovirus GMP manufacturing experience desirable.

M.S., B.S.
Molecular Biologists

with experience in virology and transcription factors. Applicants should have experience in some of the following: DNA subcloning, cDNA cloning, library construction and analysis, PCR, DNA sequencing, tissue culture, immunoassay, and animal techniques.

Our candidates are highly-motivated individuals who wish to make a significant contribution to the development of cancer therapeutics.

CALYDON offers an exciting research and corporate opportunity, with competitive salaries, stock options and benefits. Send your CV to:

CALYDON, 1014 Hamilton Ct.
Menlo Park, CA 94025

Postdoctoral Fellowships

The UNC Lineberger Comprehensive Cancer Center of the University of North Carolina at Chapel Hill will have openings in 1997 in its training program, now in its 22nd year, for persons completing graduate studies to train with excellent investigators in basic research in tumor virology, molecular carcinogenesis, molecular therapeutics, cancer cell biology, genetics, tumor immunology, and research that interfaces with clinical and physical sciences. Training is available in DNA repair, replication and mutagenesis; regulation of cellular proliferation and differentiation including growth factors, signal transduction pathways and intercellular communication; molecular immunology; molecular genetics and epidemiology of cancer; and human disease models and gene therapy. Unique training resources and core facilities are supported by the NCI-designated UNC Lineberger Comprehensive Cancer Center.

Preceptors are: Steven Bachenheimer, Albert Baldwin, Victoria Baultch, David Brenner, Keith Burrage, Sharon Campbell, Stephen Chaney, David Clemmons, Edward Collins, Marila Cordeiro-Stone, Channing Der, Robert Duronio, H. Shelton Earp, Jeffrey Frelinger, Frank French, Jack Griffith, Stephen Haskill, Geoffrey Houghton, Brian Herman, Eng-Shang Huang, Clyde Hutchinson III, Kenneth Jacobson, Rudolph Juliano, David Kaufman, Shannon Kenney, Ryszard Kole, Steven Leadon, David Lee, Patricia Maness-Tidwell, William Marzluff, Beverly Mitchell, Joseph Pagano, Tom Petes, Nancy Raab-Traub, James Raleigh, R. Jude Samulski, Aziz Sancar, Ronald Swanson, Lishan Su, Jenny Ting, Ronald Thurman, Michael Topal, Terry Van Dyke, Jean-Michel Vos, Kevin Weeks, Bernard Weissman, Elizabeth Wilson, and Yue Xiong.

Candidates must be U.S. citizens or permanent residents. For an informational brochure or to apply (include curriculum vitae, three letters of recommendation, a statement of research interests and graduate school records) write to:

Joseph S. Pagano, M.D.
CB #7295
UNC Lineberger Comprehensive Cancer Center
School of Medicine
University of North Carolina at Chapel Hill
Chapel Hill, NC 27599-7295

UNC's Comprehensive Cancer Center is an Affirmative Action/Equal Opportunity Employer. Minority applicants are encouraged voluntarily to identify themselves.

POSTDOCTORAL FELLOWSHIP

The Monterey Bay Aquarium Research Institute (MBARI) seeks 2-year postdoctoral applications from marine science and engineering candidates preferably in the following areas:

- 1) the tectonic hydrogeology, and geodynamics of transform and/or compressional margins.
- 2) the causes and effects of short and long term chemical variations of undersea cold seep and hydrothermal fluids. Candidates should be interested in experimental design, implementation, and analysis.

Founded in 1987 by the late David Packard, MBARI is a non-profit, private oceanographic research institute, uniquely dedicated to the development of state-of-the-art equipment, instrumentation, systems and methods for scientific research in the deep waters of the ocean.

Located in Moss Landing, CA, the heart of the nation's largest marine sanctuary, MBARI places a balanced emphasis on science and engineering, with established programs in remotely operated vehicle (ROV) control technology, ocean physics, chemistry, geology, and biology, as well as information management, acoustics, and ocean instrumentation research and development. Fellowships may require occasional trips to sea.

MBARI's newly consolidated research center in Moss Landing, with a staff of 140 people, includes award winning science and engineering laboratories. Additionally, MBARI recently took delivery of its new SWATH research vessel, the Western Flyer, and has just deployed a technologically advanced ROV, designed and built at the Institute, that takes unique research capabilities to depths of 4,000 meters.

To glimpse MBARI's current activities, please visit our World Wide Web page: <http://www.mbari.org>

Applicants should be recent Ph.D. recipients or 1997 degree candidates.

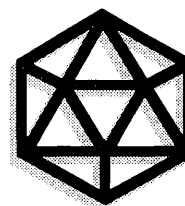
Applications should be received by the end of February 1997 and must include: A Curriculum Vitae, at least three professional references, a succinct description of the applicant's doctoral research, and a concise statement of the applicant's research interests, including the nature of the research that the applicant wishes to pursue at MBARI. Awards will be announced by the end of March 1997. Candidates must complete their Ph.D. degree prior to commencing the two-year appointment between October 1997 and March 1998.

MBARI offers a competitive compensation package, including medical, dental, vision, and retirement benefits. First year salary is \$37,000; second year \$40,000. Interested individuals should address applications to: **Postdoc-97, MBARI, PO Box 628, Moss Landing, CA, 95039.**

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MBARI Welcomes Diversity

Research & Senior Scientists



Avigen is a leader in the development of gene therapy based on adeno-associated virus (AAV) for the treatment of inherited and acquired diseases. We are developing versatile gene delivery technologies that can be applied to numerous disease targets, taking advantage of the rapid advances being made in the identification of genes associated with human disease.

GENE DELIVERY - You will develop novel methods to efficiently deliver DNA and proteins to cells. Ideal candidates will have prior academic or industry experience and a strong record of scientific achievement in non-viral gene delivery. (Job# SC0117-GD)

INTEGRATION/RECOMBINATION - You will develop novel techniques to direct the integration of DNA into the genome. Ideal candidates will possess a proven track record in DNA integration or recombination along with the skills necessary for genome analysis at the chromosomal level (e.g., chromosomal FISH). (Job# SC0117-LR)

Applicants should possess a Ph.D./M.D. with at least 3 years of post-doctoral experience in a relevant area of molecular biology, cell biology, virology or chemistry. Level will be based upon candidate's demonstrated history of productivity, creativity, and supervisory experience.

We offer competitive salaries & benefits, generous stock options, and an exciting opportunity to join a dynamic team focused on exploring the impact of gene therapy on selected human diseases. To apply, send/fax resume to: **Avigen, Inc., Human Resources,** (Attn: Job#), 1201 Harbor Bay Parkway, Suite 1000, Alameda, CA 94502; Fax: (510) 748-7155.



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BIOINFORMATICS

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At Amgen, you'll discover a research environment that emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. This unique approach has helped us grow into a global biotechnology leader in just fifteen years.

We seek an experienced Manager of Information Services to support our research efforts at our **Boulder, CO** facility. Responsibilities include; recommending and implementing information delivery mechanisms and programs; performing information searches; maintaining and continuing to develop our printed collections; and participating in research teams.

Successful candidates must have a B.S. degree in the field of Chemistry or Library/Information Management with a strong emphasis in chemistry, and 5 years experience searching chemical and biomedical databases, including substructure and reaction searching. Excellent communication and management skills and the ability to work in a multi-disciplinary team environment is essential. Experience in providing information support for the licensing and patenting of new molecular entities is a plus.

We recognize that diverse perspectives are a key factor in the process of discovery.

At Amgen, you'll find our approach as rewarding as it is effective. We offer a highly competitive compensation and benefits package. Please mail your resume to: Amgen, Boulder, Human Resources, Job Code: BPSC-7945, P.O. Box 19409, Boulder, CO 80308-2409. Please consult our on-line Web site at <http://www.amgen.com> or call our Job Hotline at 800-446-4007 for information on other career opportunities available at Amgen. Principals only, please.

EEO/AA Employer M/F/D/V

AMGEN.



**St. Jude Children's
Research Hospital**

ALSAC • Danny Thomas, Founder

POST-DOCTORAL POSITION

In Molecular Pharmacology

St. Jude Children's Research Hospital has an immediate opening for an investigator interested in determining how neurotrophins, and their corresponding TRK family receptors, promote survival of neuroblastoma cells using molecular biological approaches combined with pharmacological approaches. St. Jude provides an outstanding research environment with exceptional facilities, seminar series, and support services. The position is intended to provide an excellent opportunity for career development.

The position is available immediately and requires a background in molecular biology and, ideally, experience in signal transduction research. Interested candidates should send a curriculum vitae and the names of three references as soon as possible to: **David Middlemas, Department of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, P.O. Box 318, Memphis, TN 38101-0318.** Affirmative Action/Equal Opportunity Employer.

RESEARCH FACULTY POSITIONS

University of Michigan

Applications are invited for two researcher faculty positions at the University of Michigan to begin July 1, 1997. The first is in the area of gynecologic oncology. Responsibilities will include the development of an independent research program in the basic cellular or molecular aspects of cancer. The candidate will also be expected to facilitate the laboratory research activities of the surgeon-scientists in the Division of Gynecologic Oncology. Qualifications include a Ph.D. degree, postdoctoral experience, and a record of productivity. Appointment to the department's research scientist/instructional tract as well as an appointment to the Comprehensive Cancer Center and a basic science department is anticipated. Forward a letter of application, a one-page summary of research interests, resume, and three letters of reference to: **V.V. Baker, M.D., Chief, Division of Gynecologic Oncology, University of Michigan, 1500 E. Medical Center Drive, MPB D2251, Ann Arbor, MI 48109-0718.** Applications will be accepted through March 3, 1997.

A second, unique tenure track opportunity exists at the University of Michigan for an individual with a strong track record in research relevant to reproductive biology to bridge basic research in the Department of Biological Chemistry with research interests of the Department of Obstetrics and Gynecology. Appointment will be joint in both departments. The selected individual will have a new laboratory adjacent to both departments and will be expected to develop a strong, externally funded, and independent research program. They will also participate in graduate training, teach and interact with faculty throughout the medical school. Applicants should send curriculum vitae and bibliography, a brief description of current and future research directions, and request three letters of reference to be sent to: **Timothy R.B. Johnson, M.D., Professor and Chair, Department of Obstetrics and Gynecology, University of Michigan, MPB D2202, Ann Arbor, MI 48109-0718.** Applications will be accepted through February 14, 1997.

The University of Michigan is an Affirmative Action/Equal Opportunity Employer. Applications from qualified women, minorities, and/or disabled individuals are encouraged.

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Lectureship in Analytical Chemistry

Department of Chemistry

Vacancy UAC.820

The Chemistry Department wishes to expand its teaching and research capabilities in analytical chemistry. Applicants must have a PhD degree, a proven record of creative research as evidenced by publications in refereed international journals, and also have highly regarded teaching abilities. All suitably qualified candidates with expertise in instrumentation or applications of analytical chemistry are encouraged to apply. It is expected that the appointee will be capable of teaching and conducting research in food science programmes as well as in mainstream analytical chemistry. Evidence of an ability to attract external research grants would be an advantage.

Commencing salary will be NZ\$44,250 - NZ\$53,250 per annum.

Further information and Conditions of Appointment should be obtained from the Academic Appointments Office, The University of Auckland, Private Bag 92019, Auckland, New Zealand, telephone 64-9-373 7999 ext 5097, fax 64-9-373 7023, email: appointments@auckland.ac.nz. **Three copies** of applications should be forwarded to reach the Registrar by **24 February 1997.**

Please quote the Vacancy Number UAC.820 in all correspondence.

W B NICOLL, REGISTRAR



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CHIEF, SCIENCE POLICY BRANCH OFFICE OF SCIENCE POLICY AND COMMUNICATIONS

NATIONAL INSTITUTE ON DRUG ABUSE
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The National Institute on Drug Abuse (NIDA) invites applications for a Supervisory Health Science Administrator/Medical Officer, career Civil Service series GS-601-15/GS-602-15 with an annual salary range of \$75,935 to 98,714. Physicians may also be eligible for a Physicians' Comparability Allowance of up to \$20,000 per year. The position is located in Rockville, Maryland.

The incumbent serves as Chief of the Science Policy Branch in the Office of Science Policy and Communications. The Chief is responsible for conceptualizing, developing, directing, and implementing a science-based strategic planning and policy process for NIDA. This includes coordinating the planning activities of five research divisions; soliciting and integrating input from the scientific community, professional organizations, and treatment and prevention practitioners; conducting analyses, developing options, and making recommendations to the Office Director and the Institute Director on research priorities. The incumbent's activities directly affect the planning, justification, and assessment of the Institute's entire research and training budget of more than \$400 million. He/She conducts and oversees analyses of new and existing key policy issues related to drug abuse and addiction, including research training, basic biological and behavioral research, prevention, treatment research including pharmacotherapy and health services research. The Chief provides Institute leadership in the areas of research training activities, Congressional relations, and science education initiatives.

Qualification requirements include the following: a Ph.D. or equivalent doctoral degree in an academic field pertinent to health science, a Doctor of Medicine or Osteopathy degree from a school in the U.S. or Canada, or a Masters Degree in a pertinent health or social science; a professional background in the scientific administration of biomedical and/or behavioral research; and knowledge of research methodology.

NIH job vacancies are posted on the NIH website at <http://www.nih.gov/news/jobs/>. Detailed information is provided in a vacancy announcement number DA-96-45. To request a copy please call the NIDA personnel Office at (301) 443-9593. Applications must be submitted to:

NIDA PERSONNEL OFFICE
5600 FISHERS LANE
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This position is included in the Federal Affirmative Action Program and is therefore targeted to EEO recruitment efforts. **Applications must be post-marked by March 1, 1997.** U.S. citizenship is required.

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To pre-register, please submit your resume or CV via fax: (202) 289-6742, or via e-mail: bioscience@aaas.org. Indicate the career fair location you are submitting it for. **Remember to bring multiple copies of your CV or resume with you to the Career Fair, a copy will be necessary to register.** Admission to all of the events is FREE.

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Do not contact MIT directly. They are not responsible for organizing this event.

UNIVERSITY OF PENNSYLVANIA

Department of Pathobiology School of Veterinary Medicine

Applications are invited for a tenure track faculty position to work in the area of oncology. The individual chosen will have the opportunity to collaborate with basic scientists and clinical oncologists within the School of Veterinary Medicine as a member of the Mari Lowe Center for Comparative Oncology, and in the Cancer Center within the School of Medicine. In addition, there are numerous opportunities to interact with faculty at the Wistar Institute, the Institute for Human Gene Therapy, and the Fox Chase Cancer Center. The position is broadly defined and may be filled by individuals who are using molecular approaches to examine basic aspects of oncology, such as signal transduction, host immunologic responses, cell cycle control, molecular manipulations of tumor cells, mechanisms of neoplastic transformation of molecular and cellular mechanisms for metastasis.

Candidates must have a Ph.D., a Ph.D./V.M.D., or a Ph.D./M.D., and have sufficient postdoctoral experience to demonstrate both significant accomplishments and outstanding promise. The individual will be expected to establish an independent extramural funded research program, and will participate in the teaching of veterinary and graduate students. We anticipate this appointment to be at Assistant Professor level, but outstanding individuals will be considered for a more senior level position.

A curriculum vitae, a statement of research interest, and the names of 3 references should be sent to: **Dr. Sam Chacko, Search Committee Chair, Department of Pathobiology, School of Veterinary Medicine, 3800 Spruce Street, Philadelphia, PA 19104.**

RESEARCH UPDATE

American Cyanamid, a subsidiary of American Home Products, a Fortune 150 company, seeks highly motivated, innovative research professionals to join The Plant Biotechnology Program at our Agricultural Products Research Center in Princeton, New Jersey.

Plant Cell Biologist/Ph.D. - Transformation

This position requires a Ph.D. in genetic transformation and analysis of transgenic plants of important crop species with a strong background in plant physiology and genetics as well as 2 years of postdoctoral experience in this field. Experience in molecular characterization of transgenic crops is required.

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The Department of Molecular and Cell Biology, Division of Biochemistry and Molecular Biology invites structural biologists to apply for a faculty position to begin July 1, 1997, or thereafter. Applicants should have experience in and a commitment to developing a strong research program using X-ray crystallographic methods in concert with other experimental or theoretical studies of macromolecules to investigate fundamental biological or biochemical problems.

Ph.D. scientists should have demonstrated excellence, originality and productivity in research as well as a strong interest in undergraduate and graduate teaching.

Applications should include a curriculum vitae, bibliography, and a brief description of research accomplishments; a two-page statement of research objectives and teaching interests; and reprints of the three most significant publications. Arrange to have three letters of reference sent to the address below on your behalf. Applications must be received by March 1, 1997. *The University of California at Berkeley is an Equal Opportunity, Affirmative Action Employer.* Send applications to:

**Search Committee, Division of Biochemistry and Molecular Biology
University of California, Berkeley
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401 Barker Hall #3204
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Each year a Committee of the McGill University Faculty of Medicine confers the **Louis and Artur Lucian Award** (\$40,000 Can.) for outstanding research in the field of diseases of the circulation. The purpose of this Award is to honor a scientific investigator or group of investigators whose contribution to knowledge in this field is deemed worthy of special recognition. The successful applicant is invited to spend a short period of time at McGill University to give a formal Lucian Lecture and to have interchanges with the members of the McGill community. Submissions should be received on or before April 1, 1997.

For information and requests for nomination forms, please contact: **Dr. Yves Clermont, McGill University, Department of Anatomy and Cell Biology, 3640 University Street, Montreal, H3A 2B2 Canada.** Telephone: 514-398-6349; FAX: 514-398-5047.

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