

NEW PRODUCTS

LARGE PCR FRAGMENT KIT

The Extensor Long PCR system consists of a unique enzyme mix for use in generating large polymerase chain reaction (PCR) fragments. These fragments are generally longer than 3 kb for complex templates, such as human DNA, and can extend to 20 kb. Standard PCR conditions and the use of Taq DNA polymerase alone are insufficient for the amplification of such fragments. This kit includes a thermostable proof-reading enzyme.

Advanced Bio-technologies

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mRNA ISOLATION KITS

With MACS mRNA Isolation Kits, mRNA can be isolated either from total RNA or directly from cells and tissue. Small- or large-scale isolations can be performed using the various MACS separators. There are no tedious centrifugation steps. The procedure makes use of magnetic column technology that permits effective removal of proteins, ribosomal RNA, and genomic DNA so that pure, functionally intact mRNA is isolated.

Miltenyi Biotec

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SOFTWARE FOR ENZYME-LINKED IMMUNOSPOT ASSAYS

New software for microscope image analysis allows for cost-effective, fast, and reliable examination of enzyme-linked immunospot (ELISPOT) assays with reproducible results. The KS-ELISPOT version 4.0 covers the work stages from image acquisition, spot recognition, and the differentiation from incorrectly identified objects up to the display of results, printout, and data transmission. The evaluation is fully conducted on an Axioplan 2 automated universal microscope with an incident light system, a motorized stage, and an autofocus device. The software runs under Windows 95 or Windows NT. The ELISPOT technique can be used in all areas in which enzyme-linked immunosorbent assays are performed, with the ELISPOT detec-

Carl Zeiss

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tion method increasing sensitivity by up to 200 times.

STEREO-FLUORESCENCE ATTACHMENT

A new fluorescence attachment for stereomicroscopy allows for simultaneous mounting of three filter-reflector sets for fast and convenient viewing of specimens with multiple fluorescent labels such as green fluorescent protein (GFP), blue fluorescent protein, and Rhodamine. A simple sliding handle eliminates the tedium and risk of removing filters from the instrument. A slider is also incorporated for the addition of supplemental

Micro Video Instruments

For more information call 508-580-0080 or **circle 147** on the Reader Service Card



emission filters above the filter cubes. This feature makes it possible, for example, to insert bandpass filters above the longpass GFP set, thus obviating the need for two GFP sets. The unit is both compact and light-efficient, since its straight light path between lamp and filters requires no additional mirrors. Either mercury or xenon arc sources can be attached to provide intense excitation illumination.

QUADRUPOLE MASS SPECTROMETER UPGRADE

The QMG422 quadrupole mass spectrometer features an improved electrometer preamplifier, a new controller, and advanced software. The instrument is suitable for analytical applications

Pfeiffer Vacuum

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that require a detection range from parts-per-thousand to high percentage concentration, high reproducibility, fast response time, and long-term stability. The autoranging capabilities of the preamplifier allow the measurement of large dynamic ranges, from small to large intensities in a single scan. The device has unit resolution in all mass ranges up to 2048 amu. Even at low mass numbers, the QMG422 can distinguish masses as close as He (4.003) and D₂ (4.028). The software operates under Windows 3.1, Windows 95, and Windows NT.

DISPOSABLE SYRINGE FILTERS

A new, improved line of Syrfil-MF disposable syringe filters is for cleaning and sterilization of small volumes of fluids. They are available in 0.22-, 0.45-, and 0.8-μm pore sizes, sterile and non-sterile. Applications include prefiltration, particle removal, clarification of aqueous solutions, aseptic dispensing of small volume liquids, and serum clarification.

Corning

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BIOCHIP ARRAYER

The BioChip Arrayer is a high-precision, low-volume, automated pipetting platform for research and development of pharmaceutical and biotechnology assays. The BioChip Arrayer is the first automated system to offer non-contact, sub-microliter pipetting technology with high robotic positioning precision. The instrument has a robotic arm that provides 10 μm positioning resolution and accommodates 384-, 864-, or 1536-well plates or glass slides for creating high-density sample arrays. For example, 6000 1-nl DNA samples can be spotted in a 2.5 cm by 2.5 cm area.

Packard

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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 of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Reader Service Card and placing it in a mailbox. U.S. postage is free.

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POSITIONS OPEN



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JUNIOR/SENIOR FACULTY SKELETAL BIOLOGY AND TISSUE ENGINEERING

The Department of Orthopaedic Surgery is expanding its orthopaedic research program and is recruiting individuals at the tenure-track junior/senior level in the areas of skeletal biology and engineering, particularly cellular, molecular, developmental biology; tissue/cell engineering; and bioimaging. Successful candidates will join a highly interactive and productive group of Investigators in the Division of Orthopaedic Research. Submit curriculum vitae, a statement of research plans, and have three letters of reference sent to: Dr. Rocky S. Tuan, Professor and Vice Chairman, Department of Orthopaedic Surgery, Thomas Jefferson University, Philadelphia, PA 19107. Telephone: 215-955-5479; FAX: 215-955-9159; e-mail: tuan1@jefflin.tju.edu. *Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION MOLECULAR GENETICS OF COMPLEX DISEASE The University of Chicago Department of Psychiatry

Individuals with outstanding research accomplishments in genomic technologies, such as physical mapping and positional cloning, in human disorders are invited to apply for a tenure-track/tenure position at the level of **ASSOCIATE** through **FULL PROFESSOR**. The successful candidate will be expected to establish a new laboratory and pursue independent and collaborative studies applicable to psychiatric disorders with inherited susceptibilities. Active participation in teaching at the undergraduate, graduate, and medical student levels is also expected.

The applicant's research should employ molecular and genome technology methods, as well as establish a relationship of their findings to disease. The environment in which the research will be performed is a new laboratory building with several existing laboratories within the Department of Psychiatry, as well as nearby laboratories in the Department of Human Genetics, and the Center for Neurobiology, which are headed by **Professor David Ledbetter** and **Professor Sam Sisodia**, respectively. Appropriate space and start-up funding are offered.

Applicants should submit a curriculum vitae and brief statement of research accomplishments and interests to:

Elliot S. Gershon, M.D.
Professor and Chairman
Department of Psychiatry
The University of Chicago
5841 South Maryland Avenue MC3077
Chicago, IL 60637

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ASSISTANT/ASSOCIATE PROFESSOR. Department of Food Science, manufacturing of cereal-based foods. Penn State. The Department of Food Science seeks applicants for the position of Assistant/Associate Professor in the area of manufacturing of cereal-based foods. This 12-month tenure-track position includes research and extension responsibilities. Pennsylvania ranks in the top three within baking, pasta, and snack food industries. The successful candidate will be expected to establish a strong, externally funded program in manufacturing of cereal-based foods, with emphasis on functionality of cereal-based ingredients of importance in baked products, pasta, and snack foods. Applicants must have an earned doctorate in food science, cereal science, food engineering, or a related field, with a strong background in the behavior of cereal-based ingredients. Postdoctoral and/or industrial experience is highly desirable. A competitive salary and an attractive benefits package are available. The closing date for applications is September 30, 1998, or until a suitable candidate is identified. Anticipated starting date is January 15, 1999, or as negotiated. Applicants should submit a letter of application, résumé, academic transcripts, statement of research and extension interests, and the names and addresses of three professional references to: Dr. Swamy Anantheswaran, Chair, Search Committee, 111 Borland Laboratory, Box S, The Pennsylvania State University, University Park, PA 16802. Telephone: 814-865-3004; FAX: 814-863-6132; e-mail: rca3@psu.edu. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION THE DEPARTMENT OF PATHOLOGY AND THE CELL ADHESION AND MATRIX RESEARCH CENTER The University of Alabama at Birmingham

The Department of Pathology and The Cell Adhesion and Matrix Research Center announce the reopening of the search for a full-time, tenure-track faculty member at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR** in the Department of Pathology and invite applications from qualified candidates. The successful candidate must hold a Ph.D. or M.D.-Ph.D. degrees and have postdoctoral experience with a record of publications in mainstream journals. He/she will be expected to establish an independent, extramurally funded research program and to participate in departmental and graduate education activities of the Molecular and Cellular Pathology Graduate Program and the Cell Adhesion and Matrix Research Center. Candidates with expertise in molecular mechanisms of cell adhesion are especially welcome to apply. A competitive salary, newly renovative laboratory space, and start-up package are available. University of Alabama at Birmingham is ranked in the top 20 institutions in NIH-funded research and offers a highly interactive environment with state-of-the-art facilities. Applicants should submit a current curriculum vitae with a statement of research interests, and three letters of reference to: Joanne E. Murphy-Ullrich, Ph.D., Chair, Search Committee, Department of Pathology, G038 Volker Hall, 1670 University Boulevard, Birmingham, AL 35294-0019. Applications must be received by September 1, 1998. *UAB is an Affirmative Action/Equal Opportunity Employer. Women and minority applicants are encouraged to apply.*

FACULTY POSITION. The Department of Psychiatry at the University of California, San Diego (UCSD) is seeking a Molecular Neuroscientist for a tenure-track position at the **ASSISTANT PROFESSOR** level. Applicants should hold Ph.D. (or M.D.-Ph.D.) degree(s) and have minimum of two years of postdoctoral training. Candidates sought with record of successful research in molecular, cellular, or genetic approaches to neurotransmitter receptor mechanisms and signal transduction. The Department has a strong program in behavioral/neurochemical studies in neuropsychopharmacology and is seeking an individual with focus of molecular biological approaches to these problems. Salary based on qualifications, experience, and UC pay scales. Candidates should send curriculum vitae and other supporting documents by July 31, 1998, to: Search Committee J, University of California, San Diego Department of Psychiatry, 9500 Gilman Drive, La Jolla, CA 92093-0603. *UCSD is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION

Applications are invited for a tenure-track faculty position in the Department of Biomedical Sciences. Minimum qualifications include M.D. or Ph.D. in either pathology, physiology, or pharmacology with appropriate related teaching and research experience. Teaching responsibility includes pathophysiology and physiology for undergraduate students. Rank and salary commensurate with qualifications. Application deadline: July 31, 1998. Send curriculum vitae and the names and addresses of three references to: Department of Biomedical Sciences, UCOM 6000, University of South Alabama, Mobile, AL 36688. E-mail: sitaya@usmail.usouthal.edu; website: <http://www.usouthal.edu/usa/allied/biomedic.htm>. *The University of South Alabama is an Affirmative Action/Equal Employment Opportunity/Veterans/Minorities/Females/Disabled.*

The University of Florida seeks an **ASSISTANT PROFESSOR** for a tenure-track position at .50 F.T.E. in the Department of Medicine, Division of Internal Medicine. M.D. degree, Board-eligible/Board-certified in internal medicine and experience in sigmoidoscopies and the ability to instruct residents and faculty on the procedure. Responsibilities also include but not limited to treating patients with internal medicine problems on an outpatient basis. Teaching medical students and residents in the Department of Medicine. Salary and benefits commensurate with experience. Recruiting deadline date: August 15, 1998. Anticipated start date: October 1, 1998. Send curriculum vitae to: Richard Davidson, M.D., Associate Professor in Medicine, University of Florida, Department of Medicine, Division of Internal Medicine, Box 100277, JHMHC, Gainesville, FL 32610. *An Affirmative Action/Equal Opportunity Employer.*



**United States Environmental Protection Agency
National Exposure Research Laboratory
Human Exposure and Atmospheric Sciences Division**

The U.S. Environmental Protection Agency (EPA) is seeking highly qualified senior scientific/engineering candidates for the Director of the Human Exposure and Atmospheric Sciences Division (HEASD), National Exposure Research Laboratory (NERL) located at Research Triangle Park (RTP), North Carolina. The NERL is responsible for conducting research and development related to the exposure of people and ecosystems to a wide range of pollutants in the air, water, and soil, and to other environmental changes resulting from human activities at a wide range of scales. The HEASD conducts intramural and extramural research to characterize exposures, across the whole of the exposure assessment paradigm from pollutant source to the dose delivered to the exposed person or receptor. The principal foci of the Division's research are human exposure to chemical pollutants and atmospheric sciences. The Division's research mission encompasses aspects of all components of the exposure assessment paradigm, including exposure/source research; atmospheric processes modeling research; environmental characterization research, including characterizing microenvironmental concentrations/exposures, and defining the critical routes of exposure; exposure analysis research; and exposure/dose research. The human exposure research has both modeling and measurement aspects. It focuses on exposures to susceptible subpopulations and includes field studies of total exposure measurements, the development of probabilistic human exposure models, and the linkage of these models to environmental process models and dose models to achieve source-to-dose models. The atmospheric sciences portion of HEASD's research includes the development and application of instruments and methods to measure atmospheric pollutants and their precursors; chamber and kinetics studies of the chemistry of air pollutants; the development of source apportionment techniques; and the comprehensive profiling of emissions from on- and off-road mobile sources burning gasoline with and without fuel additives.

The Director of HEASD plans, develops, organizes, directs, and implements a highly technical and complex research and development program that has nationwide impact with an annual budget in excess of \$25M and a staff of approximately 130 employees located in RTP and Las Vegas, Nevada. The Director and scientists under the Director's supervision are the Agency's experts in the area of multipathway, multimedia human exposure to environmental contaminants and atmospheric sciences, measurement methods, chemistry, and source characterization; and, therefore, they interact and represent the Agency to a large community of scientists, both nationally and internationally, as well as to the general public and legislative leaders. Ultimately, the research performed will provide an understanding of the critical factors to be considered in developing and implementing programs for the protection of the public's health.

The preferred candidate for this position will have a doctoral degree in one of the biological, physical, or mathematical sciences or in an engineering field. Candidates must also have scientific expertise in either atmospheric sciences or human exposure to chemicals and have demonstrated leadership in scientific management of state-of-the-art programs in atmospheric sciences or human exposure to chemicals. In addition, applicants must meet the executive and technical qualifications described in the vacancy announcement. Salary ranges from \$104,577–\$114,486 per annum, commensurate with the level of appointment in the Senior Executive Service.

To apply for this position, you must obtain a copy of the vacancy announcement and submit an application containing all the requested information by the closing date of the announcement. All applications for this position must be postmarked by 8/28/98. The vacancy announcement may be obtained by calling or writing **Ms. Karen Stinson (202) 260-6374, U.S. EPA, Executive Resources & Special Programs (3641), 401 M Street SW, Washington, DC 20460**. The announcement may also be viewed on the Office of Research and Development's Internet Site at <http://www.epa.gov/ord/>.

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The Science of Agricultural Genetics

RESEARCH COORDINATOR (Job #AB-818S) Analytical Biochemistry - Genomics

As a result of Research and Product Development growth we are seeking a motivated individual to direct genomics-related efforts within our Analytical Biochemistry Department. Responsibilities will be primarily in the area of structural genomics and include providing leadership for projects focusing on EST/gene sequencing, maize physical mapping, reverse genetics systems, and various DNA core support activities. The Coordinator will be responsible for incorporating emerging genomics technologies into Pioneer's research efforts through establishing and maintaining external relationships with university, government and industrial laboratories. This individual will also play a key role in Pioneer's overall genomics effort, working closely with scientists across the Pioneer-DuPont Research Alliance in the areas of functional genomics, proteomics, molecular markers, and bioinformatics. We are seeking an individual with a Ph.D. in Genetics, Molecular Biology or related discipline plus a minimum of five years of relevant research experience and a demonstrated track record in genomics. If you meet these criteria and are looking to provide leadership in a team environment we encourage you to submit an application.

RESEARCH MANAGER (Job # AB-819S) Molecular Marker Technology Development

A desire to understand both our germplasm better and the molecular basis of key traits is at the heart of many of Pioneer's research programs. Analytical methods to assay DNA sequence variation (currently molecular markers) are an important tool in these efforts and we currently have an opening for a Research Manager who will lead our program to develop and implement "next generation" technologies which will enhance the efficiency of obtaining and assaying DNA sequence variation data and/or the informativeness of those data. This position is in our Analytical Biochemistry Department and will collaborate with other scientists at Pioneer and at our research alliance partner, DuPont, developing and applying marker technologies. If you have a Ph.D. in Genetics, Molecular Biology or related discipline plus at least 3 years of relevant experience developing or adapting molecular marker technologies for specific applications and if you value working in a result-oriented team environment, we encourage you to apply for this position.

COORDINATOR (IM-801S) Computational Biology

Pioneer's Computational Biology group is seeking a motivated individual to direct Bioinformatics efforts within our Research Information Management Department. Responsibilities will be primarily in the areas of informatics and computational biology and include providing leadership for multiple projects focused on the identification, development, integration and application of informatics technologies relating to Pioneer's genome research project. The Coordinator will be responsible for incorporating emerging informatics technologies into Pioneer's Research efforts through establishing and maintaining external relationships with university, government, and industrial laboratories. This individual will also play a key role in Pioneer's overall genomics effort, working closely with scientists across the Pioneer-DuPont Research Alliance in the areas of structural and functional genomics, proteomics, and molecular markers. We are seeking an individual with a Ph.D. in Molecular Biology, Computer Science, Genetics or closely related discipline plus a minimum of five years of relevant research experience and a demonstrated track record in computational biology or informatics. If you meet these criteria and are looking to provide leadership in a team environment we encourage you to submit an application.

Located in Johnston, Iowa, Pioneer offers a superb working environment, a competitive salary, and an excellent company benefit package. For confidential consideration send 3 copies of your cover letter and current resume, indicating job number: Pioneer Hi-Bred International, Inc., Attn: Human Resources-Research P.O. Box 1004, Johnston, IA 50131-1004; or e-mail jobsresearch@phibred.com. Visit our website at <http://www.pioneer.com>. Application deadline: July 31, 1998

Pioneer Hi-Bred International, Inc., is the world leader in agricultural genetics. Founded in 1926, we are a publicly held company that invests more than \$160 million in research and product development. Pioneer' brand products are grown in almost every crop-producing continent in the world. At our headquarters in Des Moines, Iowa, we're adding to our Research team.



PIONEER HI-BRED INTERNATIONAL, INC.

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ADVANCING THE POWER of Science.

Vertex Pharmaceuticals Incorporated, a publicly owned pharmaceutical company in Cambridge, is engaged in the discovery, development and commercialization of pharmaceuticals for the treatment of diseases for which there are currently limited or no effective treatments. The Company is concentrating on the discovery and development of drugs for the role in the treatment of many diseases including cancer multi-drug resistance, inflammation, and HIV infection and AIDS.

▲ CELL BIOLOGY & IMMUNOLOGY STAFF INVESTIGATOR

This individual will conduct Drug Discovery Research, compound evaluation studies with an emphasis on immune regulation, Preclinical Compound Analysis in Cellular Model Systems and Animal Model Systems. Successful candidate will also design and execute studies that aid in the validation of biological targets; perform drug discovery research; establish and implement protocols for disease-oriented, cell-based assays that are useful for compound screening and preclinical compound characterization; and provide appropriate interpretation of experimental results and communicate data orally at internal meetings or in writing for reports submitted to corporate partners and/or to regulatory agencies.

Ph.D. in Immunology, Cell Biology, Molecular Biology, or Biochemistry with Research Experience in an immunological area required; MD or MD/PHD is acceptable. Candidates must have at least 3-5 years of post-doctoral experience with an impressive track record of scientific publications in addition to an excellent understanding of cellular immunology and mammalian cell biology. Research experience in industrial setting and supervisory experience desired. Additional knowledge of state-of-the-art molecular biological and biochemical techniques is preferred. "Hands-on" experience in the conduct and analysis of preclinical drug evaluation experiments and familiarity with in vivo animal model are advantages. Job Code: 300-2898

Please submit cover letter and resume on-line (preferred method), to: www.vpharm.com/jobs, or to: Recruiting Manager, Vertex Pharmaceuticals, Job Code: _____, 130 Waverly Street, Cambridge, MA 02139; Fax: (617) 577-6645. Scannable resumes should be forwarded on plain white bond paper, using standard types and fonts, and no bold or italic print.

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AG SECTOR

Senior Scientists (Ph.D. Level) Biochemistry, Molecular Biology and related disciplines

We require a Ph.D. in Biochemistry, Molecular Biology or relevant field and strong knowledge of protein-protein and protein-DNA interactions, especially in the fields of signal transduction and gene regulation. You must also have laboratory experience in phage display, antibody diversity, biopanning, protein purification or assay development. Excellent communication skills and the ability to work well in a team environment are also necessary.

Research Scientists (BS/MS Level) Biochemistry, Molecular Biology and related disciplines

We require a BA/BS or MS in Biochemistry, Molecular Biology or relevant field and knowledge in the areas of gene expression and protein analysis. You must also have laboratory experience in gene cloning, vector construction, protein purification, assay development and gene expression in heterologous systems. Excellent communication skills and the ability to work well in a team environment are also essential.

Senior Scientist (Ph.D. Level)

Microbial Genetics and related disciplines

We require a Ph.D. in Microbial Genetics or relevant field and strong knowledge of gene regulation. You must also have laboratory experience in yeast or bacterial strain construction, mutant analysis, gene fusions, signal perception or transcriptional regulation. In addition, excellent communication skills and the ability to work well in a team environment are required.

NUTRITION & CONSUMER SECTOR

Assay Development and Screening

Job Code: NCP-ADS

We require an MS, BS or equivalent biological sciences experience. You'll also need laboratory competency in one or more of the following: assay development, enzymology, receptor biology, cell culture or high thru-put screening. Computer literacy is preferred, as is experience with automated instrumentation or robotic workstations.

Animal Physiologist

Job Code: NCP-AP

We are looking for a self-motivated team-player with a BS/MS degree in Biology, Biochemistry, Physiology or a related discipline to conduct research studies with animals. You will need prior experience working with animals in a research environment and strong interpersonal and communication skills. A familiarity with animal models of human physiology is an asset.

Molecular Cell Biologist/Molecular Endocrinologist

Job Code: NCP-ME

While working as part of a team that's enhancing human health through molecular nutrition, you will conduct in-vitro and cell-based screening assays to characterize biological properties of nutrients.

We require an MS in Biochemistry or Molecular Biology or a BS with experience along with extensive knowledge in the following areas: mammalian cell culture, transient and stable cell transfection, reporter gene assays and western blot analysis. We prefer experience in nuclear receptor biology and recombinant DNA technologies.

Molecular Cell

Biologist/Biochemist/Molecular Biologist

Job Code: NCP-NY

During a 2 year sabbatical at Mt. Sinai Medical School in New York with a Monsanto collaborator, you will enhance human health through molecular nutrition. This will involve developing state-of-the-art technology that will be used to establish cell based assays for library screening, target identification and mechanisms of advanced studies. You will

then transfer this technology into Monsanto and work between the two sites.

We require an MS in Biochemistry or Cell Biology or a BS with experience. Experience with cell culture, cell based assays, assay development, enzyme assays and protein biochemistry is required. Experience in molecular biology, cell culture, western analysis and 96-well assay development is preferred.

Inflammation Scientists/ Fatty Acid Biochemists

Job Code: NCP-IS

We require a BS/MS in Pharmacology, Nutrition or Biochemistry along with experience in inflammation or lipid biochemistry. Ideally, your experience is in animal models related to inflammation, the effects of nutritional intervention on inflammation, essential fatty acid (notably orachidonic acid) biochemistry and metabolism, and immunology.

Corn Molecular Breeding Project Manager

Job Code: NCP-MBPM

While working with a team, you will develop nutritional value-added traits in corn. This includes coordinating the effort to evaluate germplasm by molecular, biochemical, and biological assays in labs, greenhouses and growth chambers.

We require a Ph.D. in Plant Breeding, Plant Physiology or a related agricultural science. An understanding of germplasm enhancement, extensive experience in QTLs mapping, and use of molecular marker technologies is a must. Knowledge of genomic biotechnology in plant breeding is essential.

Please direct resumes accordingly:

Those interested in the **AG SECTOR**, please send resume to: **The Monsanto Life Sciences Company, Attn: Rose Meadows, 800 N. Lindbergh Blvd., Mail Code: U3F, St. Louis, MO 63167.**

Those interested in the **NUTRITION & CONSUMER SECTOR**, please send resume to: **The Monsanto Life Sciences Company, 700 Chesterfield Pkwy, Mail Code: BB5B, Job Code: _____ (select from above) St. Louis, MO 63198 or fax: 314/737-6419.**

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Located in the San Francisco Bay Area, **Athena Neurosciences, Inc.** is a growing biopharmaceutical company committed to the discovery & development of new products to diagnose and treat diseases of the central nervous system. We currently have an excellent opportunity in our South San Francisco facility for an experienced researcher to join our expanding R&D team.

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Athena offers competitive salaries and benefits. To apply, please send/fax resume to: **Athena Neurosciences, HR Dept, (Attn: Job# SC0710-PT), 800 Gateway Blvd., South San Francisco, CA 94080; Fax: (650) 877-8370.** Equal Opportunity Employer



CHEMIST

The Federal Bureau of Investigation (FBI) has a unique and challenging career opportunity for a highly-motivated professional who is comfortable working in a deadline-oriented environment.

This position requires a Bachelor's degree in a physical science which includes at least 30 hours of specific study in undergraduate or graduate chemistry. Some travel may be necessary. We prefer experience with: a previous forensic or analytical laboratory; GC with FID, NPD, MS, MS/MS, and MSⁿ detection and liquid, headspace, and pyrolysis sample introduction; HPLC with UV, RI, and Electrospray MS detection; Raman, FTIR and UV/VIS spectroscopy with Microscope attachments; Stereomicroscopy and Polarized Light Microscopy; X-ray Diffractometry; and wet chemical extraction and bench methods.

Interested candidates should submit resumes no later than July 31, 1998 to: FBI Headquarters, 935 Pennsylvania Ave., N.W., Laboratory/SC, Attn: D7CHMT, Room PA-750, Washington, D.C. 20535. *Resumes submitted after the closing date will not be considered.* Only those candidates determined to be the best qualified will be contacted to proceed in the selection process. You must be a U.S. citizen and consent to a complete background investigation, polygraph, and drug test as a pre-requisite for employment. The FBI is an Equal Opportunity Employer.

For additional employment information, call the FBI Employment Jobline: (202) 324-3674 or visit the FBI homepage: www.fbi.gov



The Federal Bureau of Investigation



Postdoctoral Fellowship at NIH HIV Research

A postdoctoral position is available for molecular studies on replication of HIV and other mammalian retroviruses. Research projects include analysis of individual steps in reverse transcription; functional analysis of reverse transcriptase; and the role of other viral proteins, such as the nucleocapsid protein in reverse transcription. Studies are performed with model systems and HIV-infected cells. Applicants should have a strong background in molecular biology and either protein biochemistry or virology and less than five years of postdoctoral experience. Please send a curriculum vitae, bibliography, and the names and addresses of three references to: **Dr. Judith G. Levin, Chief, Section on Viral Gene Regulation, Laboratory of Molecular Genetics, NICHD, Building 6B, Room 216, NIH, Bethesda, MD 20892. Fax: (301) 496-0243. E-mail: judith_levin@nih.gov**

NIH is an Equal Opportunity Employer.

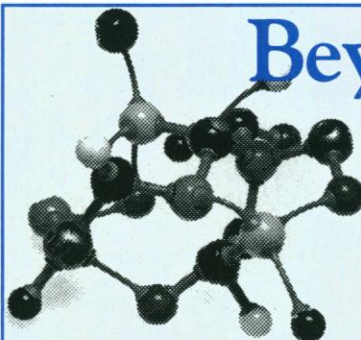
Medical Ethicist to plan and direct the Ethics program of the Section on Genome Ethics and Special Population Research, Office of the Clinical Director, Division of Intramural Research, National Human Genome Research Institute (NHGRI), National Institutes of Health (NIH), Bethesda, Maryland. Conducts research, consultation, and training in Genetic Ethics and pulmonary complications of genetic disease. Plans and conducts research in genome ethics, including the ethical, legal, and social implications of genetic research. Serves as a consultant to the NIH Clinical Center in Medical Ethics and the pulmonary complications of genetic disease. Develops guidelines, goals, and other criteria for the establishment of an Institutional Review Board for the NHGRI intramural program and serves as a consultant to the Board and scientific staff. Provides leadership in ethics to an active medical genetics fellowship program as well as instruction to genetics fellows, medical students, and genetics counselors in NIH training programs.

Candidate should hold an M.D. degree and have significant experience in medical ethics, research, consultation, and training related to human genetic research. Board-certification in Pediatrics and/or Pediatric Pulmonology is desirable.

Send CV and names of 3 references to:

Dr. C. Francomano, fax: 301-496-7157, e-mail: clairf@nhgri.nih.gov. Applications must be received by July 17, 1998.

NHGRI is an Equal Opportunity Employer.



Beyond Medicine to Health™

Hoechst Marion Roussel, a world leader in pharmaceutical based healthcare, is dedicated to extending and enhancing human life through discovery, development and manufacture of innovative products. Additional dedicated resources have created career opportunities within our expanding our U.S. Strategic Research Center in Bridgewater, N.J.

Ph.D Exploratory Toxicologist

Responsibilities include leading a staff of 2-3 research professionals in the design and implementation of exploratory in vivo and in vitro toxicology studies for the integration of rapid screening assays in new drug development. This will include active interaction with disease research groups in support of toxicology studies, determining future regulatory needs, and evaluate/implement cutting-edge technologies to meet these needs. In addition, the incumbent will design pre-clinical toxicology programs for new molecular entities and plan appropriate toxicology and mechanistic toxicology studies to support regulatory submissions.

Requirements:

- Ph.D. in Molecular Toxicology, Pathology, Pharmacology or recognized related discipline with up to 5 years of relevant experience (pharmaceutical industry preferred). D.A.B.T. or A.C.V.P. certification highly desirable,
- Specific experience with cell cultures, automated compound screening (including cell based transcription assays), and molecular biology techniques,
- Demonstrated record of creativity and innovation,
- Excellent written and verbal communication skills,
- Ability to effectively interact with a multidisciplinary team of research professionals.

Ph.D Regulatory Toxicologist

Responsibilities include the design of pre-clinical toxicology programs for new molecular entities early in the drug development process, planning of appropriate toxicology and mechanistic toxicology studies to support compound submissions, development of complete risk assessment packages, and support of Phase I clinical development plans for new drugs. This will include active participation on various drug development teams and taking a lead role in the preparation of drug submissions such as IND's, NDA's and other submissions as appropriate for US and foreign regulatory agencies. The incumbent will evaluate and implement cutting edge technology as they interact with disease research groups to support early toxicology studies, determine future regulatory needs, and implement processes to meet those needs.

Requirements:

- Ph.D. in Toxicology, Pharmacology or recognized related discipline with 3 to 5 years of relevant experience (pharmaceutical industry preferred). D.A.B.T. certification highly desirable,
- Demonstrated record of creativity and innovation,
- Excellent written and verbal communication skills,
- Ability to effectively interact with a multidisciplinary team of research professionals.

Attracting and retaining top talent is a high priority at Hoechst Marion Roussel. That is why we offer one of the most outstanding and comprehensive compensation and benefits packages in the pharmaceutical industry. Our total rewards package includes competitive compensation and bonus programs, flexible medical and dental plans, tuition assistance, income protection plans, and generous retirement plans that have been cited as the best in the industry. For consideration, mail your resume (suitable for scanning) including salary history/requirements, to: **Staffing Manager, D-103H, Ref #1998BW0018, Hoechst Marion Roussel, Routes 202-206, P.O. Box 6800, Bridgewater, New Jersey 08807-0800, U.S.A., or e-mail: jobs@hmri.com.** For additional company information, we invite you to visit our website: www.hmri.com. An affirmative action employer M/F/D/V.

Hoechst Marion Roussel

Hoechst 

Hoechst Marion Roussel
The Pharmaceutical Company of Hoechst

Computer/Lab Support Research Division

Merck & Co., Inc. is a leading research-driven pharmaceutical products and services company. **Recently ranked in the top 10 of *Fortune's* "100 Best Companies to Work for in America,"** Merck & Co., Inc. continually lives up to its reputation with a truly unique work environment that fosters diversity and growth. We currently have a rewarding opportunity for an **Information Technology Professional** with a background in **Science** in our **West Point, PA** facility.

Computer

- End-user support
- MS Office (certification a plus)
- Oracle DBA experience
- Documentation/Testing
- Windows NT
- MAC knowledge desirable

Science

- 2+ years of laboratory experience

The selected candidate will be responsible for laboratory computer support, including data collection from laboratory instruments, for a network of over 50 users. Other support areas include maintenance of Oracle databases, test plan development, documentation of new computer systems and support of existing custom systems. The incumbent will also test for chromosome damage as part of safety testing for drug registration, which involves tissue culture and microscopic analysis of cytogenetic preparations.

Qualifications include excellent written and organizational skills, as well as a BS in Biology, Biochemistry or Computer Science.

Merck offers an excellent salary and benefits package with ample opportunities for personal and professional growth. For consideration, please send curriculum vitae, including cover letter with salary history, to: **Merck & Co., Inc., One Merck Drive, P.O. Box 100, WS1F-55, COSMLS019 Whitehouse Station, NJ 08889-0100.**

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M/F/D/V



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National Institute for Discovery Science

ESSAY COMPETITION

- The National Institute for Discovery Science Essay Competition is intended to stimulate thoughtful commentary on research questions surrounding the search for extraterrestrial intelligence.
- Scientists are invited to submit essays on the topic detailed on the NIDS homepage: www.accessnv.com/nids.
- Three prizes of \$5,000 each will be awarded to the authors of the highest quality essays as judged by an independent panel of seven judges.
- The deadline for submission of these essays is: August 11, 1998.
- Results will be announced on our website on: September 11, 1998.
- For writers' guidelines, essay topics, and the latest information on essay submissions to NIDS check our website at: www.accessnv.com/nids.
- The National Institute for Discovery Science, 1515 E. Tropicana, Ste 400, Las Vegas, NV 89119. Tel: 702-798-1700. E-mail: nids@anv.net.

Director, Neuropsychiatric Research Institute

The University of Massachusetts Medical School

The University of Massachusetts Medical School (UMMS) announces the creation of a major new research institute dedicated to basic science research on major mental illness. Applications are invited for the joint position of Founding Director, Brudnick Neuropsychiatric Research Institute and Professor in the Department of Psychiatry. The soon-to-be completed Institute, a collaborative effort of UMMS and the Massachusetts Department of Mental Health, is a new state-of-the-art building consisting of 25,000 square feet of laboratory space and additional office and conference facilities. The position requires an individual who is an accomplished basic scientist with the ability to bridge the areas of clinical and basic neuroscience research. The position requires an individual with a demonstrated commitment to research and leadership skills in research administration and medical education. Excellent opportunities for collaboration with basic and clinical departments are available and the Director will play a major role in the continuing growth of basic and clinical neuroscience at UMMS. Opportunities for joint appointments with basic science departments are available. Salary and fringe benefits are competitive and the Medical School will provide a recruitment package designed to facilitate the development of an outstanding research institute.

Those interested in applying for the position should send their complete CV to: **Dr. Anthony J. Rothschild, M.D., Irving S. and Betty Brudnick, Professors of Psychiatry, University of Massachusetts School of Medicine, Room S7-802, 55 Lake Avenue North, Worcester, MA 01655.** Nominations consisting of name, telephone number and address should be sent to

Dr. Rothschild. Review of applications will begin upon their receipt.

The University of Massachusetts Medical School is an equal opportunity/affirmative action institution.



PRESIDENT

Desert Research Institute

The Board of Regents of the University & Community College System of Nevada invites nominations and applications for the position of President of the Desert Research Institute. DRI is one of the world's largest multidisciplinary environmental research organizations. Operating from state-of-the-art facilities in both Las Vegas and Reno, nearly 400 scientists, technologists, and other support staff are engaged in research projects worldwide, from five research centers. The annual budget is more than \$24.5 million; the faculty and staff obtain about \$22 million through contracts and grants; the state provides about \$2.5 million.

Reporting to the Chancellor of the System, the successful candidate will be a recognized leader in his/her scientific or engineering field, as reflected in a significant publication record. He/she will have extensive experience as a successful general administrator of complex programs at a major regional, national or international level. He/she will have outstanding communication, leadership, and interpersonal skills. Due to the unique nature of DRI's programs, marketing, political, and fund-raising skills are all necessary.

Please send nominations and applications, accompanied by a comprehensive resume, to our search consultant: **William J. Bowen, Vice Chairman, Heidrick & Struggles, Sears Tower - Suite 7000, 233 South Wacker Drive, Chicago, Illinois 60606-6402; telephone: 312-496-1000; E-mail: wjb@h-s.com.** All correspondence will be held in strict confidence. Desert Research Institute is an equal opportunity/affirmative action employer and employs only those who have or can acquire authorization to work in the United States.

X-Ray Crystallographers

Faculty positions for X-ray crystallographers are available at the National Jewish Medical and Research Center in Denver at the assistant and associate professor levels. Successful candidates will maintain an independent research program while participating in the expanding intercampus Biomolecular Structure Program at the National Jewish Center and the University of Colorado Health Sciences Center. The National Jewish Center has a productive, interactive faculty who are leaders in the fields of immunology, cell biology, signal transduction and the molecular biology of disease.

Applicants should submit a curriculum vitae containing a brief summary of past research accomplishments and a statement of future research goals to:

John Kappler, Ph.D.
Howard Hughes Medical Institute
National Jewish Medical and Research Center
1400 Jackson St., G110
Denver, CO 80206

The National Jewish Medical and Research Center is an Affirmative Action/Equal Opportunity Employer.

**NATIONAL
JEWISH**
Medical and Research Center

National Cancer Institute
National Institutes of Health, Public Health Service

CANCER PREVENTION FELLOWSHIP PROGRAM

The National Cancer Institute is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The purpose of this program is to train individuals from a multiplicity of health science disciplines in the field of cancer prevention and control. The program provides for: *Master of Public Health training* (at accredited one-year university programs); *Participation in the Cancer Prevention and Control Summer Academic Course* (open to physicians and scientists interested in specialized instruction on the principles and practice of cancer prevention and control); *Mentored research training* in cancer prevention and control at the National Cancer Institute; *Brief field assignments* in cancer prevention and control programs at other institutions. Fellows will be accepted for up to five years of training, beginning July 1, 1999. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

Research opportunities include but are not limited to: chemoprevention, clinical epidemiology, diet, nutrition and other lifestyle factor studies, evidence-based decisionmaking, intervention studies, outcomes research, special populations, screening and early detection (including genetic and other biomarkers), smoking cessation, social and behavioral research, statistical and epidemiological methodology, and translational research.

ELIGIBILITY

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

OR

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

PLUS

The applicant must be a citizen or resident alien of the United States eligible for citizenship within four years.

To receive an application catalog either call, fax, e-mail, or send a postcard or letter with your name, home address, and where you heard about the program to:

Douglas L. Weed, M.D., M.P.H., Ph.D.
Director, Cancer Prevention Fellowship Program
National Cancer Institute
Executive Plaza South, Suite T-41
6130 EXECUTIVE BLVD MSC 7105
BETHESDA, MD 20892-7105

Further Inquiries:

Mrs. Barbara Redding
TEL (301) 496-8640
FAX (301) 402-4863
e-mail: br24v@nih.gov
<http://dcp.nci.nih.gov/cpfp/>

**DEADLINE FOR RECEIPT OF APPLICATIONS:
SEPTEMBER 1, 1998**

Selection for this training program will be based solely on merit, with no discrimination for nonmerit reasons, such as race, color, gender, national origin, age, religion, sexual orientation, or physical or mental disability.

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Scripps Institution of Oceanography, University of California, San Diego
Faculty Position in Atmospheric Sciences

Scripps Institution of Oceanography invites applications for an assistant, associate, or full professor (tenure-track or tenured) faculty position in the physical or dynamical aspects of meteorology, climate or atmospheric sciences. Candidates must have demonstrated research experience in an appropriate area. Preference will be given to candidates specializing in atmospheric dynamics, with research interests in areas such as clouds, air-sea interactions, coupled ocean-atmosphere modeling, or climate variability on seasonal and longer time scales. Candidates will be expected to be able to establish a vigorous research program in an interdisciplinary environment that includes work on atmospheric chemistry, geochemistry, the physical climate system, paleoclimatology, atmospheric dynamics and physics, global climate modeling, and biological and physical oceanography.

Rank and salary will be commensurate with qualifications and experience based on the University of California pay scale. Candidates must have a Ph.D. or equivalent degree. The position will involve the teaching, supervision, and support of graduate students, and the development of research programs supported by extramural funds. There will also be the opportunity to teach at the undergraduate level. Associate and full professorial candidates must show evidence of a strong research record; assistant-level candidates will be expected to show evidence of their potential through a publication record appropriate to their experience.

Applications received by **October 1, 1998**, will be assured of consideration. Send a letter of application including a description of research interests, list of publications, résumé of teaching experience, and the names and addresses of at least three references to:

Atmospheric Sciences Search Committee
Graduate Department
Scripps Institution of Oceanography
University of California, San Diego
9500 Gilman Drive
La Jolla, CA 92093-0208
USA
(<http://sio.ucsd.edu>)

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

ASSOCIATE DIRECTOR FOR LIFE SCIENCES

Brookhaven National Laboratory (BNL) is seeking an Associate Laboratory Director for Life Sciences to assume line management responsibility for the Biology and Medical Departments and to provide oversight and planning for the life sciences throughout the Laboratory. BNL is a multidisciplinary laboratory engaged in basic and applied research and is managed by Brookhaven Science Associates under contract with the Department of Energy (DOE).

Research and development programs in the life sciences at BNL cover a wide range, including structural biology, molecular biology, genomics, plant science, environmental research, bioremediation, imaging in the neurosciences, nuclear medicine, production of medical radioisotopes, development of radiation therapies such as Boron Neutron Capture Therapy (BNCT), and operation of a Radiation Therapy Center in partnership with the nearby Health Sciences Center of the University at Stony Brook. We also develop and manage complex facilities for research in these areas for use by the wider research community. The Protein Data Bank, worldwide archive of three-dimensional structural information about biomacromolecules, is located in the Biology Department.

Support for the life sciences at BNL totals approximately \$30 million per year, sponsored primarily by DOE, with substantial support from NIH, NSF, and NASA.

We seek candidates with an international reputation and the breadth and scope to promote a stimulating research and development environment across the range of our life-science activities. The successful candidate must have the ability to communicate effectively with our scientists and staff, our research sponsors, and the public and facilitate cordial relationships with the neighboring University at Stony Brook and Cold Spring Harbor Laboratory.

Brookhaven National Laboratory is situated on 5,000 acres on Eastern Long Island, a region with a strong base of academic and industrial research. Applications and nominations should be sent by August 15, 1998 to Dr. Peter Paul, Deputy Director for Science and Technology, Brookhaven National Laboratory, Bldg. 460, P.O. Box 5000, Upton, NY 11973-5000. BNL welcomes diversity and encourages applications from all qualified individuals.

**BROOKHAVEN
NATIONAL LABORATORY**
BROOKHAVEN SCIENCE ASSOCIATES
www.bnl.gov

Pfizer is 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 achievement. Join us and become a part of the cure.

**Ph.D. In Vivo
Cardiovascular
Pharmacologist/
Physiologist**

Cardiovascular Biology Discovery Team seeks an in vivo cardiovascular research scientist to join them in the discovery of novel cardiovascular drugs for congestive heart failure and myocardial ischemic injury. Primary responsibilities include supervision of a laboratory focused on the development of acute and chronic in vivo models to evaluate drug efficacy and new therapeutic approaches.

Ph.D. or equivalent degree in Physiology or Pharmacology or related fields of biological sciences with 3+ years of post-doctoral experience and broad experience in measurements of cardiovascular function and blood flow is required. Skills in histopathology techniques and in the measurements of blood chemistry and neurohormones, as well as experience with in vivo models of congestive heart failure and myocardial ischemic injury is highly desirable. Pharmaceutical research experience in a drug discovery laboratory preferred.

Located on the shores of historic Groton, CT, Pfizer offers a high quality of life in close proximity to New York City, Providence and Boston. We offer very competitive salaries and excellent benefits as well as generous relocation assistance. For confidential consideration, please forward resume to: **Employee Resources, Pfizer Inc, Job Code #2735, Central Research Division, Eastern Point Road, Groton, CT 06340. For more information about Pfizer, see us on the Internet at: <http://www.pfizer.com>.**

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We're part of the cure.



**UNIVERSITY of
PENNSYLVANIA**

Department of Pharmacology

**Senior Research Associate
Clinical Pharmacokinetics**

A position is available for a Senior Research Associate in Clinical Pharmacokinetics to conduct Phase I and Phase II pharmacokinetic studies of novel chemotherapeutic and chemoprevention agents. These studies will be performed in collaboration with Dr. Peter O'Dwyer, Director of the new Center for Developmental Therapeutics in the Department of Hematology/Oncology. The Center for Cancer Pharmacology has state-of-the-art equipment for relevant bioanalytical studies.

Applications, including a curriculum vitae, selected reprints or preprints, a statement of research interests and the names and addresses of three references, should be sent to the attention of Dr. Ian A. Blair, Director of the Center for Cancer Pharmacology, Department of Pharmacology, Medical School of the University of Pennsylvania, Philadelphia, PA 19104-6084.

Women and minorities are especially encouraged to apply. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

PPI
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. Phase 2 trials are being completed for our first drug and we are in the process of filing additional IND applications.

**BIOCHEMIST/BIOPHYSICIST STAFF SCIENTIST
DRUG DISCOVERY**

Join an inter-disciplinary team consisting of molecular and cellular biology, chemistry and mass spectrometry scientists. The selected candidate will be involved with our combinatorial drug screening programs as well as characterizing drug-target interactions. Activities will involve analysis of protein-peptide interactions and structure-function relationships using biochemical and biophysical methods. Individuals should have a strong background in protein biochemistry including chromatographic separation methods, enzyme purification and other methods of protein structural analysis. Experience with protein-peptide interactions highly desirable. Candidates for Staff Scientists should have a Ph.D. with relevant experience.

DIRECTOR OF BIOCHEMISTRY

Lead a group of scientists responsible for the characterization of drug leads discovered utilizing our proprietary technologies involving phage display, peptide mimetics technologies, mass spectrometry and structure-based design. Extensive experience in the characterization of protein-protein interactions and structure-function relationships required. A strong background in physical biochemistry is desired with technical expertise in the study of enzyme kinetics and the use of calorimetric methods helpful. The qualified candidate must have a Ph.D. and a minimum of 8-10 years of relevant experience. Strong leadership skills and the ability to lead multi-disciplinary research team are required.

We offer a highly competitive compensation and benefits package. Please send your resume to: **Mary O'Malley, PRAECIS Pharmaceuticals, Inc., One Hampshire Street, Cambridge, MA 02139.** No phone calls please. An Equal Opportunity Employer.



**PRAECIS
PHARMACEUTICALS
INCORPORATED**

Proteinix, Inc., an emerging biotechnology company in Gaithersburg, MD, that develops products for human and animal health, has immediate positions available:

SCIENTIST, Vaccine Research

Seeking talented scientists in cellular and molecular immunology to drive a novel vaccine research project. The efforts will consist of discovery and development of adjuvants and cellular factors involved in the immune response. A key element of the research will be the development of in vitro assays to screen compounds. Experience in the determination of cellular and molecular immune responses is required. Also it would be an advantage if the candidate had experience with animal models and or molecular biology related to vaccine development. Candidates must have at least 2 years post doctoral experience.

RESEARCH ASSOCIATE, Protein Expression

This key position is for a molecular biologist with a BS and 3-4 years experience with vector construction, E. coli transformation and bacterial expression systems. Studies will involve construction of expression vectors for the production of novel proteins. The candidate needs to be familiar with gene construction using synthetic oligonucleotides and polymerase chain reaction methods. Applicants should have a good basic biochemistry or similar background and an understanding of microbial genetics; experience with fermentation and/or cell biology would be an advantage.

PROTEINIX, INC.

Proteinix, an equal opportunity employer, offers an excellent salary & benefits package. Send resume to Proteinix, Inc., 16020 Industrial Dr., Gaithersburg, MD 20877, Attn: HR/JK, or fax to 301/947-6998.



Lead Discovery

We are identifying novel inhibitors of kinases that regulate disease-causing genes. The department has efforts in target-based high throughput screening, protein expression and purification, enzymology, protein modeling and cell and molecular biology assay development. Members of the department work in a highly interactive Project Team environment with close links to the Medicinal Chemistry and Therapeutic groups.

ASSOCIATE DIRECTOR/GROUP LEADER

The successful candidate will be a senior scientist with a minimum of two years' experience in high throughput screening. Experience with kinase or enzyme inhibitor screening is highly desirable. Strong analytical and data management experience is a must. She/he will be responsible for leading the core activities required for the successful accomplishment of fully automated target-based HTS. In addition, she/he will coordinate the interactions with the department of medicinal chemistry to insure synergistic library screening and hit follow up. The preferred candidate will have experience/knowledge of genomics and proteomics applications for lead discovery. **Code: SRLR**

SCIENTISTS

The successful candidates will work within a highly motivated team to conduct the biochemical characterization of new targets, develop assays for implementation into high throughput screening and participate in the characterization of small molecule inhibitors identified in our Drug Discovery efforts. He/she will interact closely with biologists and chemists within a project team environment. Within the Lead Discovery Department he/she will be responsible for communicating the project team needs and participating in the coordination of lead discovery efforts to meet project objectives.

Qualified candidates will have a Ph.D. and at least two years' postdoctoral experience in biochemistry or enzymology. Experience with assay development preferred. **Code: SLDS**

Please send resume, indicating code to:
**Signal Pharmaceuticals, Attn: HR Dept., (Code),
5555 Oberlin Dr., San Diego, CA 92121;
Fax: (619) 623-0870;
E-mail: lcain@signalpharm.com
See our web page at: www.signalpharm.com/signal
AA/EOE**

SIGNAL
PHARMACEUTICALS, INC.



Director and Professor
School of Natural Resources and
Associate Dean,
College of Food, Agricultural and
Environmental Sciences
The Ohio State University



Responsibilities: Lead and administer a comprehensive, multidisciplinary undergraduate and graduate program in natural resources that includes approximately 40 faculty members, 425 undergraduate and 120 graduate students; fiscal and administrative responsibility for all instructional (resident and extension), research, and public service programs in the School.

Qualifications: Earned doctorate in natural resources or allied disciplines and a distinguished record of research, teaching, and/or extension consistent with appointment as a tenured full professor. Candidate must have demonstrated superior administrative experience that includes fiscal and human resources management, preferably in a multidisciplinary academic unit. Candidate must have demonstrated leadership qualities and the ability to communicate effectively with faculty, staff, students, and stakeholders.

Salary: Commensurate with experience.

Closing Date: August 31, 1998, or until a suitable candidate is identified.

Contact: Submit letter addressing interest, qualifications, and administrative philosophy; include résumé and names, addresses, and telephone numbers of five references (at least one of which represents a stakeholder organization outside of academia) to:

Dr. Terry J. Logan, SNR Director Search Committee
The Ohio State University
2021 Coffey Road
Columbus, OH 43210-1085
614/292-9043; FAX: 614/292-7432
logan.4@osu.edu

The Ohio State University is an Equal Opportunity/Affirmative Action Employer.



Participate in
the Cure of
Diabetes!



Sansum Medical Research Institute is seeking a MD &/or Ph.D. Senior Scientist with extensive experience in the field of islet cell transplant &/or immunology to head up the research team of the Santa Barbara Diabetes Project.

The Santa Barbara Diabetes Project represents a collaboration with some of the world's leading scientists to apply their expertise toward the cure of diabetes.

The Senior Scientist will coordinate this accelerated research focus at Sansum and with electronically linked investigators participating from research centers with specialties in the areas of gene therapy, immunology, and bio-physics.

CV's to: Lois Jovanovic, MD
 ljovanovic@sbdp.org
 Fax: 805 682-3332

Sansum Medical Research Institute
 Santa Barbara Diabetes Project
 2219 Bath Street
 Santa Barbara, CA 93105

POSITIONS OPEN

CELL BIOLOGIST/BIOENGINEER

Two **INSTRUCTOR** positions available immediately at the University of Texas Medical School-Houston, and the Texas Heart Institute, for Cell Biologists and/or Bioengineers with significant background and experience in cell biology. Successful candidates will have a doctoral-level degree (M.D., Ph.D., M.D.-Ph.D., or equivalent) and background experience in one or more of the following areas: angiogenesis, atherosclerosis, plaque rupture, cardiovascular devices, optics reactive oxygen species, immunology, or apoptosis. An interest in the use of calorimetry, IR spectroscopy, or fluorescence detection *in vivo* to study control of physiological processes would be an asset. Interest and experience with molecular pathology is helpful. Current projects involve the use of thermal imaging of vascular plaques (and near IR and immunofluorescence methods) to predict and/or prevent rupture of unstable atherosclerotic plaques and restenosis. Send curriculum vitae as well as names and points of contact of three references to: **Ward Casscells, M.D., c/o Ms. Carolyn Williams, Texas Heart Institute, Department of Vascular Cell Biology, P.O. Box 20345, Mail Code 2-255, Houston, TX 77225.**

Brown University invites applications for a tenure-track, three-year renewable position as **ASSISTANT PROFESSOR** of chemistry, Brown University, in organic chemistry or biochemistry. The position is to start July 1, 1999. Applications from individuals with a doctoral degree and exceptional qualifications in organic chemistry, biochemistry, or closely related fields and exhibiting promise for outstanding research and teaching at all levels of organic chemistry or biochemistry are invited. Postdoctoral experience is desirable. Applicants should submit complete curriculum vitae, including graduate and undergraduate transcripts, publication list, statement of research plans and requirements, and should have three letters of recommendation sent to: **Professor J. William Suggs, Search Committee, Department of Chemistry, Brown University, Providence, RI 02912.** To guarantee full consideration application materials should be received by November 2, 1998. *Women and candidates who are members of minority groups are especially encouraged to apply. Brown University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

NEUROSCIENTIST

The University of Tennessee, Memphis, College of Medicine, Department of Anatomy and Neurobiology, is seeking qualified applicants to fill two **ASSISTANT** and/or **ASSOCIATE PROFESSOR** tenure-track positions. Candidates must have a Ph.D., M.D., or equivalent, postdoctoral experience, and an active research program in neuroscience, and must show a high potential for external funding. Candidates must participate in teaching of professional students and a graduate course in their area of expertise. Rank and salary will be commensurate with qualifications. The Department is the center of a rapidly expanding, multidisciplinary neuroscience program with a highly interactive, productive group of Neuroscientists. Please submit a curriculum vitae, a brief statement of research and teaching experience, and names of three references to: **S. T. Kitai, Chair, Department of Anatomy and Neurobiology, University of Tennessee, Memphis, 855 Monroe Avenue, Memphis, TN 38163.** Review of application will begin in September 1998 and continue until the positions are filled.

The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer.

UNIVERSITY OF FLORIDA

Seeks a **CLINICAL ASSISTANT PROFESSOR** in the Department of Medicine, Division of Rheumatology, M.D., with Board-certification in internal medicine and Board-eligible/certified in rheumatology. This is a non-tenure-track position that will be concerned primarily with patient care. 80 percent of the individual's time will be devoted to seeing patients in rheumatology clinics, seeing patients on the rheumatology consultation inpatient services, and attending on the inpatient services at Shands Hospital and the Gainesville Veterans Administration Medical Center. 20 percent of the individual's time will be devoted to scholarly activities. Salary and benefits commensurate with experience. Recruiting deadline: July 30, 1998. Anticipated starting date August 21, 1998. Please send curriculum vitae to: **Eric Sobel, M.D., Assistant Professor, Division of Rheumatology, Box 100277 JHMC, Gainesville, FL 32610.** *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

RESEARCH POSITION VASCULAR BIOLOGY AND RADIATION

The Cleveland Clinic Foundation is seeking applicants for a full-time research appointment at the **ASSISTANT PROFESSOR** level. Applicants should possess a Ph.D. or M.D. with a background in vascular biology and/or radiation biology as well as the ability to organize and implement an independent research program. This individual will be interacting with scientists in the Departments of Cell Biology, Molecular Cardiology, Neuroscience, Neurosurgery, and Radiation Oncology at the Cleveland Clinic Foundation. Start-up funding, resources, and benefits at the Cleveland Clinic Foundation are extremely competitive. Interested candidates should send a curriculum vitae and three references to:

Marc Mayberg, M.D., Chairman
Department of Neurosurgery
The Cleveland Clinic Foundation
9500 Euclid Avenue/S80
Cleveland, OH 44195 USA

Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.

The Department of Ophthalmology at the University of Oklahoma Health Sciences Center in Oklahoma City has a tenure-track position available for appointment at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Applicants using molecular, genetic, or biochemical approaches whose research focuses on growth factors and/or angiogenesis in the mammalian retina are especially invited to apply. Opportunity exists for interactions with other Investigators within the department as well as with those at the Oklahoma Center for Neuroscience and the Oklahoma Medical Research Foundation. Applicants should submit a curriculum vitae, with an accompanying summary of past and proposed research interests, and names of three references. Send all materials to: **David W. Parke II, M.D., Professor and Chairman, Department of Ophthalmology, Dean A. McGee Eye Institute, 608 Stanton L. Young Boulevard, Oklahoma City, OK 73104.** Telephone: 405-271-6363; FAX: 405-271-3013; e-mail: david-parke@ouhsc.edu.

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we've introduced some of the most impressive innovations in health care, and continue to provide quality health care products far into the future. With 54,000 associates throughout the world and more than \$12 billion in annual sales, our achievements are known globally and are the result of talented professionals like you. Our **Pharmaceutical Products Division** has opportunities available for highly motivated individuals who will be able to thrive in a fast-paced and dynamic environment.

SENIOR CELLULAR PHARMACOLOGIST

Our Department of Integrative Pharmacology seeks a uniquely qualified Cellular Biologist to aid its discovery and exploratory efforts. In this role, you will head a group/lab in the development of assays to discover and characterize the cellular pharmacology and specific molecular action of novel compounds. This broad-based, hands-on, leadership position calls for an aggressive, independent and creative thinker with the skills and drive to champion novel products. A strong publication record and ability to work in a multidisciplinary team are essential. A PhD plus 4-10 years postdoctoral experience in pathways (molecules) of cell activation/function, cell-surface to nuclear transcription and back, is required. **Ad Code: 98-LAM1286.**

BIOPHYSICAL CHEMIST

We seek an individual to perform biophysical analysis of protein structure/function and protein-ligand and/or membrane interactions using optical spectroscopy, hydrodynamic, thermodynamic, calorimetric or NMR methods, and perform protein isolations with FPLC, HPLC and LP techniques. You will also prepare protein for NMR, x-ray or biophysical studies and prepare stable-isotope labels, protein denaturation/renaturation analysis, and determine protein solubility and aggregation characterization as a function of solvent composition. A PhD, 2 years postdoctoral work, experience with biophysical analysis of protein structure/function and demonstrated oral and written communication skills are required. **Ad Code: 98-LAM1457**

At **Abbott Laboratories**, your contribution will be vital to our mission of improving lives. In return for your expertise, we offer a competitive compensation package, including full benefits. **Apply online at www.abbott.com/ad and enter Ad Code. Or by mail to: Abbott Laboratories, Ad Code: (insert from above), Dept. 583, Bldg. AP9A, 100 Abbott Park Road, Abbott Park, IL 60064.** An Equal Opportunity Employer, we are as committed to employee diversity as to our broad range of products and services.

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R&D OPPORTUNITIES

SmithKline Beecham, a world-class leader in Research and Development, continues to pioneer innovative pharmaceutical and health care products and services. The following opportunities are available at our state-of-the-art research facility located in suburban Philadelphia, PA.

Postdoctoral Scientist Receptor Signal Transduction

We are seeking a Postdoctoral Scientist to join the Department of Gene Expression Sciences. The selected candidate will develop novel fluorescence indicator systems that monitor functional activation of G-protein coupled receptors and protein-protein interactions. This project will be an integral part of the work of a multidisciplinary team focusing on the identification and characterization of novel G-protein coupled receptors and their ligands.

Qualifications include a PhD in Biochemistry, Molecular Biology or a related field, plus demonstrated creativity and productivity as evidenced by a strong publication record. An extensive knowledge and laboratory experience with receptor mediated signal transduction pathways and receptor-ligand interactions using molecular biology and pharmacologic methods are required. Excellent oral and written communications skills and the ability to effectively interact in a multidisciplinary team are key. Job Code: H8-0231

PhD Scientist, Immunology

Joining the Department of Immunology, your expertise in the areas of immune or auto-immune disease will be utilized in the development and implementation of animal models that support the identification and progression of immune disorder targets. You will also provide scientific leadership in the discovery of novel research areas and strategies.

We seek an individual who has the desire to work in a team research environment in addition to holding a PhD in immunology, or its equivalent, and a minimum of two years postdoctoral experience. You will also need a strong background in the design and implementation of animal models that focus on immune and inflammatory diseases in addition to practical experience with cellular and molecular immunology. Demonstrated independent research experience and oral and written presentation abilities for internal and external sources are necessary. Job Code: H8-0232.

SmithKline Beecham offers a competitive compensation/benefits/relocation package. For confidential consideration, please send your CV and the names of three references to: SmithKline Beecham Pharmaceuticals, (Job Code), P.O. Box 40047, Philadelphia, PA 19106. Indicating Job Code is Essential. We are an Equal Opportunity Employer, M/F/D/V.

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SmithKline Beecham
Pharmaceuticals

POSITIONS OPEN

UNIVERSITY OF SASKATCHEWAN

Applications and nominations are invited for an **EN-DOWED PROFESSORSHIP** in agricultural biotechnology in support of the Human Resource Training Initiative in molecular agriculture and applied biotechnology. Building on existing College and University strengths, it is mandated to plan and implement innovative research, courses, hands-on training, and other educational ventures to prepare students to meet human resource needs in agricultural biotechnology. The successful applicant will participate in conveying the technical concepts and perspectives of agricultural biotechnology to external audiences. Candidates should have a background in animal, plant, or applied microbial sciences, and proven research experience in recombinant DNA technology, fermentation, and/or cell culture. While applicants are sought from any area of agricultural biotechnology, preference will be given to candidates with expertise and an established research record in an area that complements existing programs in one or more institutions comprising the Saskatoon agricultural biotechnology complex. Initial appointment will be for a five-year renewable term and salary will be commensurate with qualifications. The Saskatoon agricultural biotechnology complex includes the College of Agriculture and several other faculties of the University, the National Research Council Plant Biotechnology Institute, the Agriculture and Agri-Food Canada Centre of Excellence in Oilseed Biotechnology, the Saskatchewan Research Council with a newly established \$9 million Fermentation Facility, and over 30 Canadian and international agricultural biotechnology companies located in Innovation Place on the University campus. The community is highly respected and opportunities for collaboration are excellent. Applicants should submit a curriculum vitae, copies of representative publications where appropriate, a description of current interests, and the names and addresses of three referees to: **Dean John W. B. Stewart, College of Agriculture, 51 Campus Drive, Saskatoon, Saskatchewan S7N 5A8 Canada. FAX: 306-966-8894; e-mail: stewart@fc.usask.ca.** The closing date for applications is August 15, 1998. *This position has been cleared for advertising at the two-tier level; applications are invited from qualified individuals regardless of their immigration status in Canada. The University is committed to Employment Equity. Members of designated groups (women, aboriginal people, people with disability, and visible minorities) are encouraged to self-identify on their applications.*

ASSISTANT PROFESSOR PLANT EVOLUTIONARY ECOLOGY in the Department of Biological Sciences Simon Fraser University

The Department of Biological Sciences is seeking a tenure-track faculty member in the area of plant evolutionary ecology. The appointment will be made at the Assistant Professor level with a start date of September 1, 1999. Biologists who conduct research in any area of the ecology and evolution of plants are encouraged to apply. The successful candidate will be expected to pursue a vigorous, externally funded research program including the training of graduate students. She or he also will be expected to participate in the undergraduate and graduate teaching program particularly in the areas of plant ecology and evolution. A Ph.D. degree is required, and appropriate postdoctoral experience is preferred. The Department of Biological Sciences at Simon Fraser University has active research programs in behavioural ecology, evolutionary biology, molecular biology and biochemistry, pest management, and plant biology. Applicants should send, no later than November 7, 1998, a curriculum vitae, three representative reprints, a one-page summary of their research objectives, and the names, addresses, and telephone numbers of three referees to:

**Dr. Michael J. Smith, Chair
Department of Biological Sciences
Simon Fraser University
8888 University Boulevard
Burnaby, British Columbia V5A 1S6 Canada
FAX: 604-291-4312**

This advertisement is directed to Canadian citizens and permanent residents. If a suitable candidate from among qualified Canadian citizens or permanent residents cannot be found, other qualified applicants will be considered. This position is subject to final budgetary approval.

Simon Fraser University is committed to the principle of equity in employment and offers Equal Employment Opportunities to qualified applicants.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR POSITION Department of Pharmacology and Experimental Therapeutics Loyola University Chicago Stritch School of Medicine

The Department of Pharmacology and Experimental Therapeutics is seeking to fill a hard money tenure-track Assistant Professor or Associate Professor position. The candidate should have a Ph.D. and/or M.D. degree, postdoctoral experience, and a strong commitment to excellence in research and teaching. We are seeking a candidate with a strong interest in signal transduction mechanisms. However, Investigators/Scientists with other research interests are also encouraged to apply. Evidence of originality and scientific accomplishment, plus an excellent record of publication in high-class peer-review journals, are essential. A record of extramural grant support is preferable. Salary is competitive, and based on experience and qualifications. Generous start-up funds will be provided. Candidates should send their curriculum vitae, three letters of recommendation, representative reprints, and a synopsis of their current and future research interests to: **Dr. Israel Hanin, Chairman, Department of Pharmacology and Experimental Therapeutics, Loyola University Chicago, Stritch School of Medicine, 2160 South First Avenue, Maywood, IL 60153. Telephone: 708-216-3261; FAX: 708-216-6596; website: <http://www.lumc.edu/pharmacology>.** Deadline for receipt of applications: August 10, 1998.

Affirmative Action/Equal Opportunity Employer.

California Institute of Technology invites applications for a tenure-track position as **ASSISTANT PROFESSOR** in the field of organic chemistry. The initial appointment will be for four years. Exceptionally well-qualified applicants may also be considered at the **ASSOCIATE** or **FULL PROFESSOR** level. Outstanding candidates who have completed their Ph.D. and have a strong commitment to research and teaching excellence are encouraged to apply. Submit curriculum vitae, publication list, a description of proposed research, and three letters of recommendation to: **Professor R. H. Grubbs, Organic Chemistry Search Committee, M/C 164-30CR, California Institute of Technology, Pasadena, CA 91125.** Applications should be received by November 15, 1998. *The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.*

WILDLIFE ECOLOGIST. Nine-month tenure-track **ASSISTANT PROFESSOR** position available. Responsibilities include teaching and research focusing on forest wildlife biology and management with emphasis on natural resource policy and administration. Earned doctorate is required and training must include at least one degree in wildlife management or closely related field. Closing date for applications is September 1, 1998, with an anticipated start date of January 1, 1999. Send application letter, curriculum vitae, college transcripts, and letters of recommendation from three professional references to: **Dr. Joseph McNeel, Director, West Virginia University, Division of Forestry, P.O. Box 6125, Morgantown, WV 26506-6125. Telephone: 304-293-2941, ext. 2471; FAX: 304-293-2441. WVU is an Equal Employment Opportunity/Affirmative Action Employer.**

UNIVERSITY OF FLORIDA

Seeks an **ASSISTANT PROFESSOR** in the Department of Medicine, Division of Cardiology. Ph.D. degree, experience in development and management of Division Clinical Trials Program. Also either/or development of individual research program, or publication records. Salary and benefits commensurate with experience. Recruiting deadline: July 30, 1998. Anticipated starting date: August 21, 1998. Please reply to: **Dr. Richard Conti, M.D., Eminent Scholar, Division of Cardiology, Box 100277 JHMH, Gainesville, FL 32610. An Affirmative Action/Equal Opportunity Employer.**

ANTIBODY EXPRESSION

Successful, rapidly growing biotechnology firm seeks expert on intermediate and large-scale recombinant antibody expression in mammalian cells. Extensive experience with yield optimization and scale-up required. Highly attractive compensation package. Send curriculum vitae to: **Science, 1200 New York Avenue N.W., Box 82, Washington, DC 20005.**

POSITIONS OPEN

DEPARTMENT OF MAMMALOGY AMERICAN MUSEUM OF NATURAL HISTORY

Seeks a **CURATORIAL ASSOCIATE** to supervise the day-to-day management of one of the largest recent mammalogical collections in the world. Duties include: supervising collections support staff, maintaining collection database records, supervising loan transactions, interacting with visitors and overseeing associated day-to-day administrative tasks. Successful applicant is expected to have strong management and interpersonal skills and be well organized and self-motivated. Applicants must possess a Ph.D., preferably in mammalogy or a closely related field, and have hands-on collections database experience. Expertise in writing grant proposals is desirable as is expertise in collection conservation. Salary \$45,000 plus fringes. Applications, consisting of a curriculum vitae, relevant work experience, and the names and telephone/e-mail of two references, should be sent to: **Dr. Ross MacPhee, Chairman, Department of Mammalogy, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024.** Applications will be received until position is filled. Please, no telephone inquiries. *An Equal Opportunity Employer.*

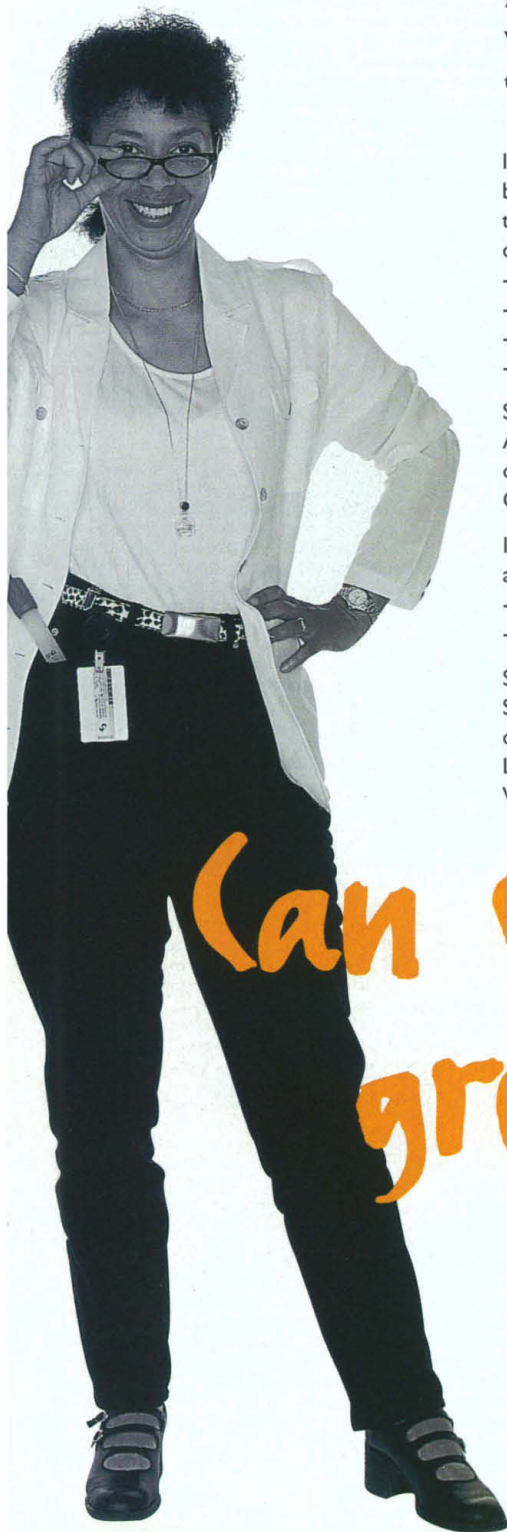
Cardiac Molecular Biology Program ASSISTANT RESEARCH SPECIALIST beginning September 1, 1998, to assist in proposed studies on novel cardiac-restricted LIM domain proteins and their potential role in cardiac development and disease. Minimum of five years of experience and scientific expertise in the areas of prokaryotic and eukaryotic protein expression, protein purification, immunochemistry, and expression cloning techniques is required. B.S. and M.S. in microbiology, biochemistry, and/or a closely related field required. The employee will be expected to pursue a rigorous research program, including supervision of support staff and training of laboratory members. Applicants will work with isotopes (37P, 35S), animals (mouse, rabbit), and adenovirus. Salary scale: \$24,000 to \$33,500. Send cover letter/curriculum vitae with the names of three professional references to: **Lori Sturtz, Program Manager/Cardiac Molecular Biology Program, Department of Medicine, 0613C, University of California, San Diego, La Jolla, CA 92093-0613.** Filing deadline: July 31, 1998. *University of California, San Diego is an Equal Opportunity Employer.*

ASSISTANT PROJECT NEUROSCIENTIST. The Department of Neurosciences at the University of California, San Diego has an academic position available immediately for a qualified Ph.D. or M.D. in pharmacological therapy of experimental stroke. Will perform studies using animal models of stroke to investigate new therapeutics and mechanisms of injury. Background in pharmacology and ability to perform animal surgery required. Knowledge of histology, statistics, and behavioral testing are desirable. Salary based on UC pay scale. Send curriculum vitae, statement of research interests, and three references by August 7, 1998, to: **Justin A. Zivin, M.D., Ph.D., University of California, San Diego School of Medicine, Department of Neurosciences, 9500 Gilman Drive, La Jolla, CA 92093-0624. E-mail: ileconguerrero@ucsd.edu.** Applications will be accepted until position is filled. *An Affirmative Action/Equal Opportunity Employer.*

MOLECULAR GENETICIST

The National Marine Fisheries Service is seeking candidates for a permanent position studying the molecular genetics of Pacific salmon (GS-0440-12, \$49,167 to \$63,922) in Santa Cruz, California. Research will determine molecular genetic variation in salmon populations to address fishery research and management issues. *Applicants must be a U.S. citizen, have earned a Ph.D. (or equivalent training and experience), and have a strong record of molecular genetics research and publication.* To apply, see website: <http://www.usajobs.opm.gov> (Announcement W/NMF/980392.BC closes 5 August 1998) or Telephone: 206-526-6294 for general information. *The Department of Commerce is an Equal Opportunity Employer.*

RESEARCH SCIENTIST to study posttranscriptional regulation of the mRNAs for glucose transporters and cytokines by phosphoproteins. Experience in studying protein-RNA interactions and phosphoproteins desirable. **Dr. Chan Jung and Dr. Stephen Spaulding, VA Western New York Healthcare System and Department of Medicine, Physiology and Biophysics, SUNY at Buffalo, 3495 Bailey Avenue, Buffalo, NY 14215. VAWNYHCS and the Research Foundation of SUNY are Affirmative Action/Equal Opportunity Employers.**



Amersham Pharmacia Biotech is a world leading research-based supplier of biotech products and services. Our R&D resources in the UK, the USA, Japan and Sweden span the world.

We run research projects on a global scale across our R&D centres through a number of Centres of Excellence. That means that if you are a specialist in protein engineering or sequencing in the UK, you could find yourself working with your peers in Tokyo and the US on the same project.

We are now stepping up our research activities and are looking for outstanding scientists to develop the technologies that will enable our customers to make great discoveries.

In **Piscataway, New Jersey, USA**, we are building up a new R&D unit and need scientists, technicians and technical/project managers for our Centres of Excellence for

- DNA sequencing and analysis
- protein engineering and sequencing
- nucleic acid and sample handling
- nucleic acid/nucleotide chemistry

Send your application to Human Resources, Andrea Shaffer, andrea.shaffer@am.apbiotech.com, or Amersham Pharmacia Biotech Inc., 800 Centennial Avenue, Piscataway NJ 08855-1327, USA.

In **Cardiff, UK**, we are looking for two graduate and post doc scientists in

- cellular biochemistry and cell biology, and
- fluorescence technology and instrumentation

Send your application to Human Resources, Simon Voake, simon.voake@eu.apbiotech.com, or Amersham Pharmacia Biotech Ltd., Cardiff Labs, Forest Farm Estate, Whitchurch, Cardiff, Wales CF4 7YT, United Kingdom.

The R&D unit in **Uppsala, Sweden**, is looking for

- scientists in the areas of optics/sensors/ detection technology
- a section manager for cell biology.

Nina Holm, nina.holm@eu.apbiotech.com, at Human Resources is waiting for your application. Or send it to Amersham Pharmacia Biotech AB, SE-751 84 Uppsala, Sweden.

For our R&D unit in **Amersham, UK**, we are looking for scientists with PhD and post doc background for the Centres of Excellence for

- gene expression/gene function
- protein and nucleic acid labelling and detection

Send your application to Human Resources, Judy Schneider, judy.schneider@eu.apbiotech.com, or Amersham Pharmacia Biotech Ltd., Amersham Place, Little Chalfont, Bucks HP7 9NA, United Kingdom.

For more information on Amersham Pharmacia Biotech, check out the website: www.apbiotech.com

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great discoveries?



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POSITIONS OPEN

RESEARCH ASSOCIATE CENTER FOR MAGNETIC RESONANCE RESEARCH—CARDIAC BIOENERGETICS

The Center for Magnetic Resonance Research, Department of Radiology, University of Minnesota Medical School is seeking a Physician with experience in surgical procedures of the heart in animal models for an academic professional position (100 percent time, annually renewable) at the Research Associate level.

Duties involve the use of magnetic resonance imaging of the heart, surgical preparation, as well as data analysis. Candidates must have an M.D. degree; at least three years of postdoctoral training with particular focus on vascular surgery and interventional radiology, which includes two years of experience with surgical procedures of the heart in animal models; experience with and a working knowledge of SUN computers; experience with various computer software including newly developed dedicated cardiac MR software for analysis of various MR heart images.

Salary is negotiable and will be commensurate with experience. Start date is August 3, 1998, or later.

Applicants for this position must submit a curriculum vitae and three letters of recommendation to:

Dr. Kamil Ugurbil, Chair
Search Committee—Research Associate/
Cardiac Bioenergetics
University of Minnesota
Center for Magnetic Resonance Research
385 East River Road
Minneapolis, MN 55455

Deadline for receipt of applications is July 24, 1998.

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

EXPERIMENTAL PHYSICIST. University of Colorado and National Institute of Standards and Technology. Joint Institute for Laboratory Astrophysics (JILA), a joint Institute comprising faculty members from both the University of Colorado and the National Institute of Standards and Technology, is conducting a search for an outstanding Experimental Physicist to join the JILA faculty. Areas of particular interest are laser physics and laser frequency stabilization, as well as quantum and atom optics, particularly as they relate to precision measurement and standards. The individual selected will be expected to develop a creative, independent, and broad-based experimental program; establish an active research group including University graduate students and postdoctoral research associates; acquire outside grants and contracts; and assume teaching responsibilities. The salary range is \$50,000 to \$80,000, depending upon experience and qualifications. Interested persons should send a curriculum vitae, a detailed proposal of research (two to three pages) and arrange for three letters of recommendation to be sent to: The Search Committee, Joint Institute for Laboratory Astrophysics, Campus Box 440, University of Colorado, Boulder, CO 80309-0440. Candidates whose applications are received by September 1, 1998, will be reviewed for a start date between January and September 1999. See the JILA website: <http://jilawww.colorado.edu>. The University of Colorado at Boulder is committed to diversity and equality in education and employment.

VICE PRESIDENT FOR BIODIVERSITY

The Academy of Natural Sciences is seeking a Vice President for the Biodiversity Group, to be responsible for providing leadership and management of twelve departments and the library, that comprise the collections-based scientific activities of the Academy. Will be charged with implementing the strategic plans of the group within the Academy's overall plan, which calls for the advancement of scientific excellence and the increase in scientific activities of the group. Will also develop programs to increase the role of collections in the activities of the Academy, fostering the group's activity in public service and integrating the collection and research activities of scientists in the group with the rest of the Academy. Reports to the President. Candidates will have achieved significant success in leading a mid- to large-size group of scientists, ideally in a combined research and public program, such as at a museum or teaching university. Prefer fifteen years of research experience and seven years of management. A Ph.D. and a track record of successful fundraising are required. Applicants should apply in writing to: The Director of Human Resources, Academy of Natural Sciences, 1900 Benjamin Franklin Parkway, Philadelphia, PA 19103-1195. No telephone calls. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

TOXICOLOGIST sought for high-profile national public interest group to evaluate the safety of food additives. Candidates must have a Ph.D. and advocacy experience. Salary commensurate with experience. Send résumé and writing samples to: **Center for Science in the Public Interest, S:TOX, 1875 Connecticut Avenue N.W., #300, Washington, DC 20009.**

PLANT PATHOLOGIST (RESEARCH AFFILIATE). U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Crop Production and Pest Control Research Unit, has two openings with one studying *Septoria* diseases of wheat and the second studying viral diseases of wheat. Specifically, for the fungal position the incumbent will study the molecular genetics of resistance to fungal pathogens in wheat. Currently, the research goals are to find and map molecular markers linked to known genes for resistance, and to analyze cloned resistance gene analogs and genes expressed in response to pathogen inoculation. The incumbent for the viral position will study the molecular genetic basis of wheat-barley yellow dwarf virus interactions. Currently, the research goal is to identify and characterize wheat-encoded proteins that interact with viral-encoded proteins using the yeast two-hybrid system. These positions require a Ph.D. in plant pathology or related scientific discipline and should have been awarded within the last four years. Experience in molecular biology techniques and knowledge of genetics, plant breeding, and plant disease resistance is desirable. Familiarity with computer programs for genetic linkage analysis (e.g., Map-Maker) a plus. Position is funded for two years and the salary is commensurate with experience (\$26,075 to \$41,470). Benefits available. Review of applications will begin July 20, 1998, but applications will be accepted until position is filled. Send application, résumé or curriculum vitae, with names and e-mail addresses of three references, to: **Dr. Stephen B. Goodwin, USDA, ARS, MWA, Department of Botany and Plant Pathology, 1155 Lilly Hall, Purdue University, West Lafayette, IN 47907-1155.** For more information for the fungal position contact: **Dr. Goodwin, Telephone: 765-494-4635; e-mail: goodwin@bttny.purdue.edu; website: http://www.bttny.purdue.edu/USDA-ARS/Goodwin_lab/.** For more information for the viral position contact: **Dr. Joseph M. Anderson, Telephone: 765-494-5565; e-mail: janderson@dept.agry.purdue.edu; website: http://www.bttny.purdue.edu/USDA-ARS/Anderson_lab/.** *USDA/ARS is an Equal Opportunity Employer.*

POSTDOCTORAL ASSOCIATE

Available immediately to join an ongoing NIH-funded project investigating the effects of ethanol on NMDA receptor gene expression and cell function. Previous experience in molecular biology and protein chemistry techniques preferred. Send curriculum vitae and three references to either: **Dr. Elias Michaelis or Dr. Keshava Kumar, Center for Neurobiology and Immunology Research, University of Kansas, 2099 Constant Avenue, Lawrence, KS 66047. Telephone: 785-864-4451.** Position will remain open until filled. *Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROJECT SCIENTIST position available beginning September 1, 1998, to study the remodeling of lung capillaries at the ultrastructural and molecular level. Strong experience in morphometry, electron microscopy, and *in situ* hybridization, in relation to the lung, is required. Ph.D. and postdoctoral experience required. Send curriculum vitae and names of three references to: **Dr. John B. West, University of California, San Diego, Department of Medicine, Physiology Division—0623A, 9500 Gilman Drive, La Jolla, CA 92093-0623.** Filing deadline: July 31, 1998. *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

NEUROPHARMACOLOGIST/BIOCHEMICAL PHARMACOLOGIST POSITION Department of Pharmacology and Experimental Therapeutics Loyola University Chicago Stritch School of Medicine

A unique opportunity to become involved in an exciting new research project is available immediately. The position will allow considerable autonomy. All necessary research support will be provided.

Requirements for this non-tenure position include: (1) A Ph.D. degree in pharmacology or a closely related allied science and/or an M.D. degree; and (2) at least 2 years of postdoctoral training. Expertise in the study of neurodegenerative processes, animal models of central nervous system dysfunction, and/or molecular techniques is preferable.

The salary is negotiable, based on prior experience and training. Travel and moving expenses to the work location will be covered by the employer.

Candidates should send their curriculum vitae, three letters of recommendation, representative reprints, and a concise personal statement to: **Dr. Israel Hanin, Chairman, Department of Pharmacology and Experimental Therapeutics, Loyola University Chicago, Stritch School of Medicine, 2160 South First Avenue, Maywood, IL 60153. Telephone: 708-216-3261; FAX: 708-216-6596.** *An Affirmative Action/Equal Opportunity Employer.*

HEAD, NEW DEPARTMENT OF PLANT SCIENCES MONTANA STATE UNIVERSITY

Plant sciences department seeks dynamic individual to lead strongly interactive 26 tenure-track and 10 research faculty. Annual expenditures of \$5 million supports strong research, teaching, and extension programs in plant pathology, plant biology, plant genetics, crop science, and horticulture; B.S., M.S., and Ph.D. programs with 140 undergraduate and 30 graduate students; state-of-the-art laboratory and plant-growth facilities with a new agricultural biosciences facility. Requires a doctorate in plant sciences or related field; academic qualifications for appointment as Associate or Full Professor. Must request complete application materials from: **Sarah Briggs, Plant Sciences Department, 513 Leon Johnson Hall, Bozeman, MT 59717-3140. Telephone: 406-994-4833; FAX: 406-994-1848; e-mail: zpl7001@montana.edu.** Screening begins October 5, 1998. *ADA/Equal Opportunity/Affirmative Action/Veterans Preference.*

The Center for Environmental Studies at Brown University seeks to fill the position of **ENVIRONMENTAL SCIENCE CURRICULAR AND TECHNICAL COORDINATOR** with additional responsibilities to assist Geology. The position will support the full utilization of a new undergraduate science teaching facility, with responsibility for overseeing analytical facilities, assisting undergraduate research, and development and coordination of laboratories. A B.A. or B.S. in environmental sciences or a related field is required and a Ph.D. is preferred. The maintenance of an active research program will be strongly encouraged. For a complete job description, contact: **Patti Caton, Telephone: 401-863-3449; e-mail: patti_caton@brown.edu.** For full consideration, submit a letter of application explaining experience, curriculum vitae, and three letters of recommendation to: **Human Resources, Box 1879, Brown University, Providence, RI 02912** by July 29, 1998. *Brown is an Equal Opportunity Employer/Affirmative Action. We particularly invite applications from women and minority candidates.*

Two **POSTDOCTORAL RESEARCH ASSOCIATE** positions, funded by NIH, are available immediately to study the acute and chronic aspects of the negative effect of alcohol on cardiovascular neurobiology. Studies will involve hemodynamic and electrophysiologic measurements in chronically instrumented conscious rats as well as central administration of drugs to investigate the role of central sympathetic pathways in the interaction. Candidates must have a Ph.D., M.D., D.V.M., or equivalent degree. Familiarity with molecular neurobiology and/or patch-clamping is desirable. Send curriculum vitae, description of research experience, and names of three references to: **Dr. Abdel A. Abdel-Rahman, Department of Pharmacology, East Carolina University School of Medicine, Greenville, NC 27858.** Federal law requires proper documentation of identity and employability at the time of employment. *Affirmative Action/Equal Employment Opportunity.*

Aalborg University Assistant-/associate professor in Biotechnology

Applications are invited for six tenure-track appointments in Biotechnology at the Faculty of Engineering and Science, Aalborg University, Denmark, at the assistant or associate professor levels, depending upon qualification and experience of the successful applicants. The positions will be available for immediate start. An applicant may apply for more than one of the positions, and should indicate whether an assistant (3 years) or associate position is applied for. A complementary team of researchers, with a sincere interest in teaching, will be selected according to Danish regulations. The Biotechnology Laboratory focuses on industrial biotechnology, aquaculture, protein structure-function-stability relationships and bioinformatics. For further information please contact Professor Karen G. Welinder, telephone +45 96 35 84 67, e-mail: welinder@civil.auc.dk and www.civil.auc.dk/i5/bio

Position 98005: **Bioprocess engineer** with a background in downstream processing techniques, for example chromatography, membrane and mechanical separations.

Position 98006: **Food Biotechnologist** with a background in plant or animal food technology, and an interest in food functionality, quality and health aspects.

Position 98007: **Plant biologist** with a strong background in molecular biology and experience in plant physiology, genetics, transgenics or metabolism.

Position 98008: **Animal biologist** with a background in fish physiology, genetics, immunology or molecular biology.

Position 98009: **Chemist** with a background in bioinorganic, electro-, colloidal, carbohydrate or protein chemistry.

Position 40779: **Physical chemist** with a background in protein analysis (structure, dynamics, kinetics, stability) by spectroscopic or crystallographic techniques.

The full text of this announcement, including information upon qualifications required, conditions of employment and regulations for the procedural treatment of applications can be obtained from the Faculty office, telephone +45 96 35 96 31 or fax +45 98 15 97 57.

Applications should include position number, CV, a numbered list of publications, indicating the 5 „most important“ or representative, an outline of proposed research, documentation of teaching experience, and 3 references (all in triplicate). E-mail applications will not be accepted. Applications should be received no later than **August 24, 1998** at **Aalborg University** Faculty of Engineering and Science P.O.Box 159, DK-9100 Aalborg, Denmark

Inaugurated in 1974, Aalborg University now has about 11.000 students. Teaching and research are conducted at the highest level in the fields of engineering, natural sciences, social sciences and humanities. The university's annual budget is in excess of 750 million Danish kroner

Faculty Positions University of Oslo Institute for Nutrition Research

We are seeking five outstanding scientists for permanent faculty positions available at the Institute for Nutrition Research, University of Oslo. The institute, which is organized as part of The Medical Faculty, has recently moved into new well-equipped facilities located next to the new National Hospital in Oslo. Qualified scientists at the institute are eligible to apply for a significant internal research fund.

Within 5–10 years, 13 out of the 23 permanent scientific faculty positions will be vacant. At this moment the following five positions are announced:

- One full professorship in nutritional biology
- Three associated professorships in nutritional biology
- One associated professorship in nutritional epidemiology

If the successful applicant to an associated professorship is qualified, he/she will be appointed as full professor.

For more information consult our web page at <http://www.nutrition.uio.no> or contact:

Professors Kaare R. Norum

(e-mail k.r.norum@basalmed.uio.no or phone 47-22851511)

or

Jan I. Pedersen

(e-mail j.i.pedersen@basalmed.uio.no or phone 47-22851358).

Application details can be obtained from:

The Institute of Basic Medical Sciences

University of Oslo

P.O.Box 1110

Blindern, 0317 Oslo, Norway.

The Interdisciplinary Center for Clinical Research at the Medical School of the University of Würzburg invites applications from young scientists for a

GROUP LEADER POSITION

in the field of Genomic Instability in Cancer. The successful candidate is expected to establish an independent research group focussing on the molecular mechanism underlying the phenomenon of genetic instability in tumor cells.

The position is tenable for five years. The possibility for completing the "Habilitation" qualification can be offered. Core funding will be provided equivalent to the experience and qualification of the group leader. The group will be located in the laboratories of the Department of Physiological Chemistry at the Biocenter and will have access to the tumor bank of the Institute of Pathology.

Applications including a research proposal of up to five pages and the names of three referees should be sent to: Prof. Dr. M. Schartl, Physiological Chemistry I, Biocenter of the University of Würzburg, Am Hubland, D-97074 Würzburg, Germany.

Postdoctoral Position at MPIA, Heidelberg

The Max Planck Institute for Astronomy (MPIA) in Heidelberg, Germany, invites applications for postdoctoral research in observational astronomy. The successful candidate will spend 50% of their time working on the ALFA project, the remainder being free for research of their choice. The ALFA project is a laser guide star adaptive optics system on the 3.5 m telescope on Calar Alto, Spain. The successful candidate is expected to contribute their expertise in upgrading and operating the system, as well as to serve as a primary driver for scientific output.

Information regarding the MPIA and research facilities available to MPIA astronomers can be found at <http://www.mpia-hd.mpg.de/MPIA>. Information with respect to ALFA is located at <http://www.mpia-hd.mpg.de/MPIA/Projects/ALFA>.

The initial appointment will be for two years, with the possibility of extension for three additional years. Applicants should have a Ph.D. in astronomy, physics, or a related field. Observational experience with adaptive optics systems and/or near-infrared cameras is desirable. Applicants should send a vitae, bibliography, two letters of reference, and a brief description of their scientific accomplishments and goals to:

Max-Planck Institute for Astronomy

Attn.: Prof. Steven Beckwith

Koenigstuhl 17

69117 Heidelberg

Germany

Applications should arrive no later than September 15, 1998.

POSITIONS OPEN

RESEARCH ASSOCIATE POSTDOCTORAL

East Carolina University School of Medicine in Greenville, North Carolina is seeking a recent doctoral graduate (Ph.D., D.V.M., or equivalent) of the biological sciences to assist in projects in freeze-drying platelets and red blood cells in the research laboratory of **Arthur P. Bode, Ph.D.**, Professor in the Department of Pathology and Laboratory Medicine. Candidates should have publications in the field of coagulation/hematology demonstrating experience in preparation and characterization of human platelets and/or erythrocytes. Specific expertise in transfusion medicine, cryobiology, or membrane physiology will be advantageous; general knowledge of hemostasis and thrombosis is expected. Fluency in written and conversational English is required. The position will be dedicated strictly to research activities and is grant-funded for a fixed term of three years, after which continuation will be based on success in securing further funding. Annual salary will be in the range of \$33,000 to \$39,000, with medical and retirement benefits as per state government employment policies.

Please send curriculum vitae and reprints of all pertinent publications along with three letters of reference to: **Peter J. Kragel, M.D.**, Professor and Chairman, East Carolina University School of Medicine, Greenville, NC 27858-4354. Applications accepted until the position is filled.

An Equal Opportunity/Affirmative Action University. Accommodates individuals with disability. Applicants must comply with the Immigration Reform and Control Act.

Two **POSTDOCTORAL RESEARCH POSITIONS** available immediately. Position One will study the use of combinatorial libraries to identify ligands that bind to proteins and to envelope and non-envelope viruses. Position Two will study expression and preparative purification of recombinant proteins from transgenic plants. These are joint industry/university research projects to develop novel separation and detection methods for proteins and viruses. Doctoral degree in biochemistry or biochemical engineering with prior experience in protein purification and characterization are desirable. Salary \$30,000 per year, position available for at least a two-year period. Send curriculum vitae and three letters of recommendation to: (Position One) **Prof. Ruben G. Carbonell**, Department of Chemical Engineering, Box 7905 or (Position Two) **Dr. Arthur K. Weissinger**, Department of Crop Science, Box 7620, North Carolina State University, Raleigh, NC 27695. NCSU is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP HEPATITIS C VIRUS REPLICATION & RNA BINDING PROTEINS

Studies of HCV NS5B polymerase: recombinant and mammalian systems. Interdisciplinary approach. *Protein Science* 6:125; *Virus Res.* 53:141. Salary and benefits competitive.

Send curriculum vitae to: **Dr. Curt Hagedorn**, 2101 WMB Emory University School of Medicine, Atlanta, GA 30322. E-mail: chagedo@bimcore.emory.edu; FAX: 404-727-5767.

Emory University is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available to study the role of the neuregulins in the central and peripheral nervous system. Studies will focus on measuring the ability of these factors to activate ErbB receptors in primary cultures of neurons and glia. Experience in tissue culture or signal transduction is desirable. Please submit a curriculum vitae, a statement of research interests, and the names of three references to: **Cary Lai, Ph.D.**, The Scripps Research Institute, Department of Neuropathology, 10550 North Torrey Pines Road, CVN-12, La Jolla, CA 92037. E-mail: carylai@scripps.edu.

POSTDOCTORAL POSITIONS available in signal transduction to study kinases, phosphatases, and proteases regulating NF- κ B, CD28 signaling, JNK kinase cascade, apoptosis, and applications in cancer/gene therapy (websites: <http://condor.bcm.tmc.edu:80/Micro-Immuno/faculty/tan.html> or spencer.html). Experience in molecular biology is required. Send applications to: **Dr. Tse-Hua Tan** or **Dr. David Spencer**, Department of Microbiology and Immunology, M929, Baylor College of Medicine, Houston, TX 77030. Baylor College of Medicine is an Affirmative Action/Equal Opportunity/Equal Access Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION available to study the role of Eph receptor tyrosine kinases in tumorigenesis and angiogenesis using transgenic and knockout mice models. Please send curriculum vitae, publications, and the names of three references to: **Dr. Jin Chen**, T-3219, MCN, Vanderbilt University, Nashville, TN 37232-2681. E-mail: jin.chen@mcmail.vanderbilt.edu.

POSTDOCTORAL POSITIONS AVAILABLE UNIVERSITY OF WASHINGTON Preclinical AIDS Vaccine Research

The University of Washington recently received a major program project grant from NIH to conduct preclinical research for development and testing of novel AIDS vaccines in nonhuman primate models. Postdoctoral research positions are available at the University and affiliated organizations. Research topics include: combination immunization strategies (**Dr. Shiu-Lok Hu**); DNA-based vaccines (**Dr. Nancy Haigwood**); mucosal immunization (**Dr. Marnix Bosch**); cellular immunity (**Dr. Philip Greenberg**). Candidates should have expertise in virology, molecular biology, cellular immunology, or related fields. Please submit curriculum vitae, three letters of reference, and a brief statement of research experience/interest to: **Pamela Silimperi**, AIDS Program Coordinator, Regional Primate Research Center, Box 357330, University of Washington, Seattle, WA 98195. E-mail: pamelas@bart.rprc.washington.edu; Telephone: 206-543-0909; FAX: 206-685-0305. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL SCIENTIST POSITION

Immunologists and Virologists with a Doctoral degree are invited to apply for a Postdoctoral position at Southwest Foundation for Biomedical Research in San Antonio, Texas, where a new laboratory is being established in the Department of Virology and Immunology. The position will be available beginning in November 1998. The main focus of our research will be to develop *in vivo* and *in vitro* models for anti-HIV/SIV activity of cytokine and antibody genes (see: *Nature Medicine* 3:659-664, 1998; *J. Immunol.* 160:1489-1496, 1998; *J. Immunol.* in September 1 issue, 1998). If you are interested, please forward your curriculum vitae and three letters of recommendation to: **Southwest Foundation for Biomedical Research, Director of Human Resources (828)**, P.O. Box 760549, San Antonio, TX 78245-6549. For information or questions contact: **Dr. Paul Zhou**, e-mail: zhou@yoda.nidr.nih.gov.

Equal Opportunity Employer.

POSTDOCTORAL POSITION

Postdoctoral position available July 1, 1998, to study sphingolipid signaling and metabolism in *S. cerevisiae*. Opportunities may exist for outstanding candidates to seek independent funding in the future.

Children's Hospital Oakland Research Institute (CHORI) is a basic science research institute associated with Children's Hospital Oakland. It is located in the heart of the East Bay Area, about 2.5 miles from the Berkeley Campus of the University of California.

Applicants with a strong background in yeast genetics are encouraged to apply. Send curriculum vitae and three references to: **Julie Saba, M.D., Ph.D.**, Children's Hospital Oakland Research Institute, 747 52nd Street, Oakland, CA 94609-1809. FAX: 510-428-3608. Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP PROGRAM CENTER FOR INDOOR AIR RESEARCH

The Center for Indoor Air Research (CIAR) is accepting applications for the CIAR Postdoctoral Fellowship Program. The purpose of this program is to further develop the scientific productivity of outstanding men and women pursuing careers in indoor air research and to stimulate interest in entering the field of indoor air research among individuals with strong backgrounds in related or allied sciences. For details and application brochure, write or call: **Center for Indoor Air Research**, 1099 Winterson Road, Suite 280, Linthicum, MD 21090. Telephone: 410-684-3777; FAX: 410-684-3729; e-mail: ciarinc@aol.com. Deadline for receipt of application is October 31, 1998.

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN AUTOIMMUNE DIABETES AND IMMUNOLOGY

Washington University
Department of Pathology and
Center for Immunology

Postdoctoral positions are currently available in our laboratories (**Paul M. Allen**, **Daved Fremont**, **Osami Kanagawa**, **Jonathan D. Katz**, **Kenneth Murphy**, and **Emil R. Unanue**) as part of an integrated program to study (1) the role of CD4⁺ and CD8⁺ T cells in the development of autoimmune diabetes, (2) the purification and characterization of pancreatic beta cell antigens recognized by CD4⁺ and CD8⁺ T cells, or (3) the role of MHC class II in the development of autoimmune diabetes. Our laboratories use state-of-the-art molecular and cellular techniques (including transgenic and knockout mice, peptide chemistry, mass spectrometry, crystallography, and recombinant protein expression technology) to study the genetics, etiology, and mechanism of type I diabetes in the nonobese diabetic (NOD) mouse. The ideal candidates should have a Ph.D. in immunology, molecular or cellular biology and experience in one of the above approaches and a keen interest in autoimmunity. Send letters of application, curriculum vitae, a statement of research interests, and three references to: **Dr. Jonathan D. Katz**, Assistant Professor, Department of Pathology and Center for Immunology, Washington University School of Medicine, 660 South Euclid Avenue, Campus Box 8118, St. Louis, MO 63110. E-mail: jkatz@immunology.wustl.edu.

POSTDOCTORAL RESEARCH ASSOCIATE

Positions are available on an ongoing basis to conduct research within different research groups in the Institute of Molecular Biology and the Institute of Neuroscience at the University of Oregon. The purpose of this notice is to establish and maintain a pool of qualified applicants. Ph.D. in molecular biology, neuroscience, or related field is required. Please see our two websites: www.molbio.uoregon.edu for information about the type of research being done. Salary dependent upon experience. For application materials, please Telephone: 541-346-5151; e-mail: rita@prospero.uoregon.edu. The University of Oregon is an Equal Opportunity/Affirmative Action Institution committed to cultural diversity and compliance with the Americans with Disabilities Act. Women and minorities are urged to apply.

POSTDOCTORAL POSITIONS. We seek Ph.D./M.D. scientists trained in cell and molecular biology who wish to engage in research on inflammation/tissue regeneration/development using knockout and transgenic mice models (see: *J. Exp. Med.* 187:517, 1998; *J. Biol. Chem.* 272:22667, 1997) in an interactive and highly supportive research program at the University of Tennessee College of Medicine. Competitive salaries and fringe benefits will be offered. Interested applicants should submit a curriculum vitae and three references to: **Dr. R. Raghaw** or **Dr. L. R. Ballou**, University of Tennessee Memphis, 1030 Jefferson Avenue, Memphis, TN 38104. FAX: 901-577-7273; e-mail: raghaw@utm1.edu. Women and minorities are especially encouraged to apply.

Two **POSTDOCTORAL POSITIONS** available to examine circuitry involved in the control of the theta rhythm of the hippocampus, and the functional significance of the theta rhythm (see: **Vertes and Kocsis**, *Neuroscience* 81:893-926, 1997). One position for Neurophysiologist with experience with extracellular unit recording in anesthetized and freely moving rats, and the other for a Neuroanatomist experienced with various neuroanatomical tracing techniques. Please contact: **Dr. Robert P. Vertes**, Center for Complex Systems, Florida Atlantic University, Boca Raton, FL 33431. FAX: 561-297-2363; e-mail: vertes@walt.ccs.fau.edu.

POSTDOCTORAL RESEARCH position in reproductive endocrinology, Center for Studies in Reproduction, University of Maryland School of Medicine. Research on the role of estrogen on uterine endometrial angiogenesis in the baboon and human as modulated by VEGF and bFGF. Training in primate reproductive endocrinology and molecular endocrinology. Ph.D. in reproductive physiology and U.S. citizenship required. Send letter of interest to: **Eugene D. Albrecht, Ph.D.**, Department of Obstetrics/Gynecology and Reproductive Sciences, University of Maryland School of Medicine, 655 West Baltimore Street, Baltimore, MD 21201.

POSITIONS OPEN

POSTDOCTORAL POSITION MOLECULAR MAPPING OF A PUTATIVE SUSCEPTIBILITY LOCUS FOR BIPOLEAR ILLNESS

Departments of Psychiatry and Human Genetics
The University of Chicago

Postdoctoral position available as early as October 1, 1998, for an initial period of two years, to study the region of chromosome 21q where linkage to bipolar manic-depressive illness was originally reported in 1994 and replicated several times since. The region in which linkage has been detected extends more than 40 cM. The present project is aimed at narrowing down the linkage region and identifying a susceptibility locus. The initial stages of the project will consist of development and extension of the map of sequence tagged sites (STSs) and expressed sequence tags (ESTs) over the region, particularly in the region centromeric of the well-mapped Down's syndrome locus, where the gene map is sparse. The successful applicant will have a Ph.D. or M.D., and have extensive laboratory experience in molecular genetics, such as physical mapping and/or cloning of expressed sequences. The Fellow will work in the laboratory of Dr. David H. Ledbetter, Professor and Chairman of Human Genetics, in collaboration with Dr. Susan L. Christian (same department), Dr. Elliot S. Gershon (Professor and Chairman of Psychiatry), and Dr. Sevilla Detera-Wadleigh (Chief of the Unit on Gene Mapping and Expression, NIMH). Please send curriculum vitae, summary of research experience, and references, to: Dr. Elliot S. Gershon, Department of Psychiatry, 5841 South Maryland Avenue, MC 3077, Chicago, IL 60637. E-mail: egershon@yoda.bsd.uchicago.edu.

The University of Chicago is an Equal Opportunity Employer.

A POSTDOCTORAL RESEARCH position in epididymal physiology is available. Our primary goal is to determine the function of androgen-dependent, epididymis-specific, secretory proteins of the primate epididymis. We are looking for a highly motivated individual with experience using protein chemical, immunological, and molecular biological techniques to study post-testicular sperm maturation. Candidates will be encouraged to apply for a NRSA during their first year.

Applicants should contact: Leona Young, Department of Physiology, Emory University, Atlanta, GA 30322. Telephone: 404-727-7416; e-mail: lgy@physio.emory.edu.

Emory University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS CORNELL UNIVERSITY MEDICAL COLLEGE

Seeking qualified individuals to join a highly productive and dynamic group with an interest in prostate cancer oncogenesis. Research focuses on neuropeptide and adhesion-induced signal transduction mechanisms (*Nature Med.* 4:50, 1998). Training in gene regulation, signal transduction, or cell cycle control desired. Well-funded modern laboratory equipment. Please reply to: Dr. Beatrice Knudsen, e-mail: bkudsen@med.mail.cornell.edu; FAX: 212-746-4483 or Dr. David Nanus, e-mail: dnanus@med.mail.cornell.edu; FAX: 212-746-6645.

POSTDOCTORAL FELLOWSHIP in infectious diseases. Research involves fungal infections and other infectious diseases. Candidates should be able to work quite independently, research the literature, and devise and carry out protocols relating to the early and rapid diagnosis of fungal infections. Ph.D. required with further experience, especially in the field of mycology, desirable. Please send or FAX curriculum vitae to: Carol Singer, M.D., Chief, Infectious Diseases, Long Island Jewish Medical Center, Room FP/3333, 270-05 76th Avenue, New Hyde Park, NY 11040. FAX: 718-470-9859. North Shore-Long Island Jewish Health System, an Equal Opportunity Employer.

Two POSTDOCTORAL POSITIONS are available: one to investigate the molecular mechanisms of altered gene expression by lipid oxidation products, another to examine mechanisms of free radical- or radiation-induced changes in cell function, e.g., proliferation, injury, apoptosis.

Applicants should be experienced in molecular biology. Send curriculum vitae and names of three references to: Guy M. Chisolm, Ph.D., Department of Cell Biology (NC-10), Cleveland Clinic Foundation, Cleveland, OH 44195. FAX: 216-444-9404.

POSITIONS OPEN



UConn
Health Center

POSTDOCTORAL POSITION IN MOLECULAR MOTORS

A Postdoctoral position is available immediately to study the role of a recently described (and very highly conserved) ~10 kDa light chain in the function of microtubule-based motor enzymes. The project will utilize dyneins from the flagella of *Chlamydomonas* as a model system and will involve both biochemistry/molecular biology approaches coupled with classical/molecular genetic analysis. A strong background in genetics and/or molecular biology is required.

Interested applicants should send a curriculum vitae and the names and addresses of three referees to: Dr. Stephen King, Department of Biochemistry, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06032-3305. Informal enquiries may be made by e-mail: king@panda.uhc.edu.

POSTDOCTORAL POSITION DEVELOPMENTAL BIOLOGY DANA-FARBER CANCER INSTITUTE

Funded position available immediately to study molecular mechanisms of differentiation of the vertebrate endoderm and its major derivative, the epithelial lining of the gut. The ideal candidate is a creative individual with a recent Ph.D. in developmental biology or strong background in molecular biology.

Please respond to:

Ramesh Shivdasani, M.D., Ph.D.

Assistant Professor

Dana-Farber Cancer Institute and

Harvard Medical School

44 Binney Street

Boston, MA 02115

Telephone: 617-632-5746

FAX: 617-632-5739

E-mail: ramesh_shivdasani@dfci.harvard.edu

Equal Opportunity Employer.

POSTDOCTORAL POSITIONS MOBILE SELF-SPLICING INTRONS

Dynamics of mobile self-splicing introns are studied at the levels of RNA, DNA, and protein accessories. Projects include analysis of catalytic RNAs and DNA-based intron mobility using genetic, biochemical, and structural approaches. Broad choice of projects. Experience in genetics, DNA recombination mechanisms, RNA splicing, protein structure, and/or nucleic acid chemistry desirable. Competitive, federally funded salary (through Health Research, Inc.).

Interested candidates should forward their curriculum vitae and have three letters of reference sent to: Dr. Marlene Belfort, Wadsworth Center, New York State Department of Health and Department of Biomedical Sciences, State University of New York, Box 22002, Albany, NY 12201-2002. FAX: 518-474-3181; Telephone: 518-473-3345.

Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION SYNAPTIC TRANSMISSION

Available immediately to study the role of cysteine string proteins (csp) in neurotransmitter release and to determine the functional interaction between csp and presynaptic Ca channels. A recent Ph.D. and experience in electrophysiology or calcium imaging is required. Please send curriculum vitae, names of three references, and summary of research experience to: Dr. Joy Umbach, Department of Pharmacology, 1220 Lewis/Crumph Building, UCLA School of Medicine, Los Angeles, CA 90095-177019.

POSTDOCTORAL POSITION in laboratory studying rheumatoid arthritis: (1) gene therapy; (2) angiogenesis, cell adhesion, and cytokines (*Nature* 376: 517; *Science* 258:1798; *J. Clin. Invest.* 101:746). Experience with adenoviral vectors, immunoassays, angiogenesis and cell adhesion assays, arthritis animal models, gene knockout mice, and molecular biology desirable. Send curriculum vitae and three reference names to: Dr. Alisa Koch, Northwestern University Medical School, Ward 3-315, 303 East Chicago Avenue, Chicago, IL 60611. FAX: 312-503-0994; e-mail: ae-koch@nwu.edu.

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITION

Applications are invited for a Postdoctoral position in the Division of Cardiology at the University of Pittsburgh, Pittsburgh, Pennsylvania. The broad research objective is to study the growth and physiology of the coronary microcirculation. Novel imaging methods using contrast echocardiography will be developed and applied to study a variety of topics such as growth factor-mediated myocardial angiogenesis and coronary endothelial function. Another important area of research activity will be the development of targeted drug delivery systems based on ultrasound contrast agents.

Candidates should have a Ph.D. or equivalent in bioengineering or a related field, with training or background in cardiovascular physiology. A solid background in acoustic physics and medical ultrasound imaging is desirable, although all strong candidates will be considered. Preference will be given to candidates with experience and knowledge in several of the following areas: animal surgery, cell culture techniques, flow cytometry, histochemistry/pathology, microscopic methods to study the coronary circulation. Ability and willingness to work across the disciplines of bioengineering and cardiovascular physiology and therapeutics on multiple levels will be an advantage. Good verbal/written English skills are essential. Interested candidates should submit a curriculum vitae and three letters of reference to:

Liza Villanueva, M.D.
William Wagner, Ph.D.
University of Pittsburgh
S568 Scaife Hall
200 Lothrop Street
Pittsburgh, PA 15208

POSTDOCTORAL RESEARCH FELLOW BIOCHEMISTRY/MOLECULAR PATHOLOGY

Postdoctoral positions are available immediately to study molecular mechanisms of transcriptional regulation of the cytochrome P450 genes in bile acid and cholesterol metabolisms. Applicants should have a Ph.D. in biochemistry or molecular biology with experiences in gene cloning, sequencing, and expression; tissue culture; protein purification; yeast two-hybrid system; and DNA-protein interactions. Please submit curriculum vitae and arrange two letters of recommendation to:

John Y. L. Chiang, Ph.D.

c/o Human Resources

Northeastern Ohio Universities College of Medicine

4209 S.R. 44, P.O. Box 95

Rootstown, OH 44272-0095

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POSTDOCTORAL POSITIONS available to study the role of the immune system in the development of atherosclerosis and the role of apolipoprotein A-I in HDL subspecies formation and the prevention of atherosclerosis. These projects involve the use of murine models of atherosclerosis and recombinant adenoviral vectors. Experience in molecular biology and adenoviral expression is preferred. Applicants should send curriculum vitae, the names of three references, and a summary of research interests to: Dr. Godfrey S. Getz, The University of Chicago, Department of Pathology MC 6079, 5841 South Maryland Avenue, Chicago, IL 60637. Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available immediately to study cell regulation and signal transduction in yeast, in particular the controls on meiotic differentiation. Experience in genetics and/or molecular biology required. Send curriculum vitae, description of previous research experience, and names of three references to: Dr. Saul M. Honigberg, Department of Biology, Syracuse University, 108 College Place, Syracuse, NY 13210. E-mail: shonigbe@syr.edu. Syracuse University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available now for application of biophysical techniques to the study of actin. Projects are available for studying pharmacologic agents that affect the actin cytoskeleton or for studying tumor suppression by actin-binding proteins. The laboratory is equipped with facilities for time-dependent fluorescence spectroscopy and analytical ultracentrifugation. Send curriculum vitae and the names of three references to: Dr. Michael Bubb, Department of Medicine, Box 100277, University of Florida, Gainesville, FL 32610. E-mail: bubb@medicine.ufl.edu.

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately for Biochemist/Biophysicist to study the folding and chaperone action of alpha-crystallin and related heat shock proteins. Experience in protein chemistry and biophysical/spectroscopic methods required. Send curriculum vitae to: **W. K. Surewicz, Ph.D., Department of Pathology, Case Western Reserve University, 2085 Adelbert Road, Cleveland, OH 44106.** E-mail: wks3@pop.cwru.edu.

GLOBAL OPPORTUNITIES

POSTDOCTORAL POSITIONS IN GENE THERAPY, TRANSCRIPTION, OR HPV

Postdoctoral positions are available to study gynecologic cancer gene therapy transcription in human cells, or HPV pathogenesis. Experience in antisense E6 E7 and IL-12 preferred. Send curriculum vitae including description of research experience to: **Dr. Woong Shick Ahn, M.D., Associate Professor, College of Medicine, The Catholic University of Korea, Department of Obstetrics and Gynecology, Kangnam St. Mary's Hospital 505, BanpoDong, Seoch-Gu, Seoul 137-040 Korea.** Telephone: 02-535-6880; FAX: 02-535-6880; e-mail: ahnws@cmc.cuk.ac.kr. Applicants are encouraged to send the information by e-mail or by FAX.

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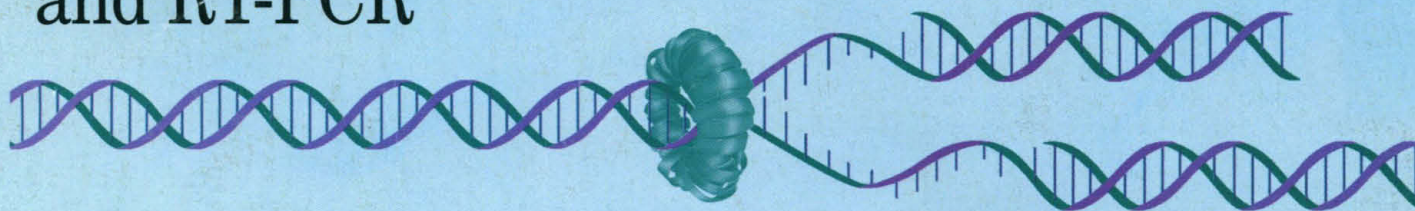
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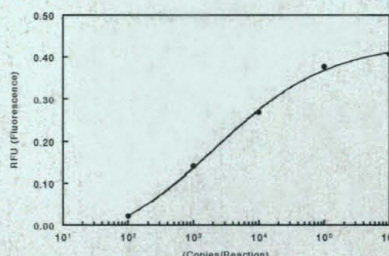
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*PCR is covered by US Patent Numbers 4683195 and 4683202 assigned to Hoffmann-LaRoche.

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