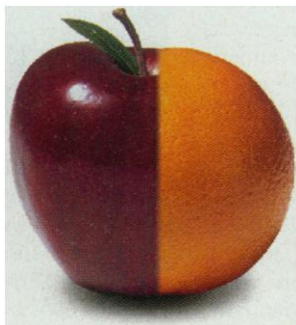


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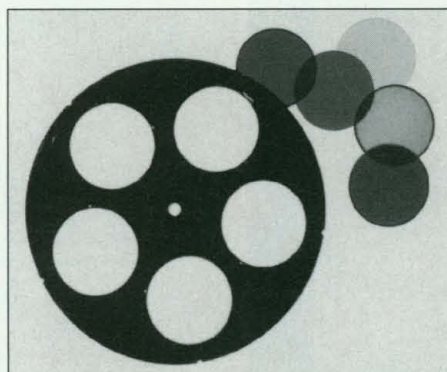
One Tube RT-PCR Kit

The Titan One Tube RT-PCR Kit offers the longest transcripts and highest fidelity currently available in commercial kits for reverse transcriptase-polymerase chain reaction (RT-PCR). Incubation temperatures can be as high as 60°C, which minimizes RNA secondary structure, induces longer

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The five-position filter wheel camera accessory and corresponding filters add supplementary fluorescence capabilities to all gel documentation and charge-coupled device camera



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The femtoLucent is a high sensitivity horseradish peroxidase immunodetection system that allows detection as low as 10 femtograms on dot blot and 10 picograms on Western (protein) blot experiments. The system emits intense light that extends over a working day, allowing the option to adjust exposure time from several seconds to several minutes for optimal detection of target antigens. **Geno Technology.** For information call 314-534-0075 or circle 146 on the Reader Service Card.

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The TGGE-System makes use of a precisely regulated temperature gradient for conformation analysis of DNA and RNA or proteins.

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Silicones for Live Tissues

New two-part silicone elastomers are formulated for low toxicity, good moisture resistance, and the ability to cure in only a few minutes at room temperature. The products are useful for attaching live tissues in biological research. In addition to their adhesive and casting properties, they are excellent replacements for wax because they do not produce heat that can damage tissue. **World Precision Instruments.** For information call 941-371-1003 or circle 148 on the Reader Service Card.

Literature

The Complete Laboratory Glassware Catalog, Supplement '98 features new products, including the SonoScience line of equipment, glassware and accessories for ultrasonic liquid processing, a line of deactivated vials and inserts, and a vacuum degassing system. **Kimble/Kontes.** For information call 609-692-8500 or circle 149 on the Reader Service Card.

Epifluorescent Membrane Assay: The EpiCount Method for the Rapid Enumeration of Microorganisms in Liquids—InLine Sampling Procedure is a technical brief that takes the reader step-by-step through this method. **Corning.** For information call 800-492-1119 or circle 150 on the Reader Service Card.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned in Tech.Sight 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. Postage is free.



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The Cardiovascular Research division at Eli Lilly and Company has openings for BS/MS level candidates to support our efforts in thrombosis, congestive heart failure, stroke and atherosclerosis.

Biochemists:

Useful experience includes isolation, purification, manipulation and characterization of proteins and developing functional assays for proteins. Familiarity with enzyme kinetics and mechanisms of inhibition of enzymes is desirable. Additional experience in G-coupled receptor and/or kinases in cardiac cells would be an advantage. Other positions are available for those with experience in developing high volume screens and development of drug candidates. For our thrombosis positions, experience in coagulation enzyme assays, clotting assays or platelet aggregation a plus.

Molecular Biologists:

Candidates should possess a solid knowledge of current molecular biology and biochemical techniques including PCR, expression cloning, library construction, gene expression, protein expression, anti-sense technology, gene delivery systems, mutant construction and analysis. Working knowledge in bioinformatics is an added asset. Experience in signaling pathways/kinases or phosphatases would be an advantage.

Pharmacologists:

These positions require the ability to carry out both in vitro and in vivo assays of drug efficacy. Candidates should have broad experience in various aspects of cell-based assay development and drug development and/or animal-based modeling and drug evaluation. Specific training in both large and small animal thrombosis models or in vivo stroke models a plus.

Cellular Biologists:

Successful candidates should possess a thorough knowledge of mammalian platelet or cell biology and the use of molecular and cellular biology techniques to explore and evaluate potential drug targets. Experience with techniques including tissue culture, transfection, reporter gene assays is required. Experience with any of the following would be desirable: integrins and membrane receptors, signal transduction pathways, regulation of gene expression or regulation of secreted proteins.

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Dow AgroSciences

INSECT BIOCHEMIST

Dow AgroSciences, (formerly known as DowElanco), a leading company in the development of innovative products for crop protection and urban pest, is seeking an insect biochemist to join the Discovery Research Insect Management Group to participate in the discovery of novel insect control agents and technologies.

Responsibilities: The successful candidate will conduct research investigating novel insect control agents, their modes of action, and developing new approaches for the control of insect pests. The individual will participate in multidisciplinary teams focused on defining and advancing potentially useful insect control agents and technologies through the discovery process.

Requirements: Ph.D. in Entomology, Biochemistry, Zoology, or related science, and a strong background in insect biochemistry/toxicology; experience in molecular biology highly desirable. Postdoctoral research experience a plus, excellent communication, computer, and interpersonal skills a must.

In addition to a competitive compensation and benefits package, Dow AgroSciences offers challenging opportunities within a creative, stimulating, and diverse work environment. *Dow AgroSciences is an Affirmative Action, Equal Opportunity Employer.* Interested candidates should send cover letter, résumé, references, and transcripts by May 1, 1998, to:

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Attn: Kathy McIntyre/Sparks



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A cell biology research fellowship is currently available with the Cannon Research Facility of the Carolinas Medical Center, a diverse and comprehensive premier teaching and research medical center located in Charlotte, North Carolina. The fellowship is part of a fully funded tissue engineering grant that is a multi-disciplinary program involving researchers at Harvard University, University of Michigan, Massachusetts Institute of Technology, and the University of Massachusetts. The fellowship will be under the Directorship of Drs. Craig Halberstadt and Walter Holder.

The selected candidate will be responsible in assisting in a tissue engineering project. The focus of the project is to study the creation of autologous cellular constructs for the development of a soft tissue for breast reconstruction. Experience in cell/molecular biology is required with a background in cell adhesion/integrin expression and developmental biology a plus.

At least one year of research experience in cell biology or bioengineering and a PhD, MD, or DVM credentials are required.

We offer a competitive salary and benefits package. Applicants should send a complete curriculum vitae to Human Resources, Carolinas HealthCare System, P.O. Box 32861, Charlotte, NC 28232-2861. EO/AA

Procter & Gamble

OPPORTUNITIES FOR CELL BIOLOGISTS

The Beauty Care Technology Division of the Procter & Gamble Company, located in Cincinnati, Ohio, has an opening for a Ph.D. Cell Biologist at our Sharon Woods Technical Center. This position requires demonstrated excellence in problem solving, teamwork, and written and oral communications.



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• Ph.D. Cell Biologist

We are seeking an innovative cell biologist to develop a mechanistic model for diseases of the skin. The model will incorporate both microbiological and immunological aspects of pathogenesis. The successful candidate will then use the model to develop predictive preclinical screens, based on tissue culture or *in vivo* models, to identify novel actives for treatment of these diseases. A Ph.D. in Cell Biology or closely related discipline is required. Experience in mammalian cell biology is essential; knowledge of skin biology, immunology, and/or experience with *in vivo* models is highly desirable. Experience in microbiology is also a plus.

The Procter & Gamble Company is a world leader in research, development, manufacture and marketing of a wide variety of consumer products including laundry & cleaning, paper, cosmetics & fragrances, beauty care, food & beverage and health care products. The Company's annual sales exceed \$35 billion and annual R&D investment is more than \$1.5 billion.

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Cincinnati, OH • 45253-8707
E-Mail: rolfes.rl@pg.com
(plain text or Microsoft Word only please)

ANNOUNCEMENT

Call for Proposals

James S. McDonnell Foundation Program in Brain Cancer Research

The James S. McDonnell Foundation announces a new program in support of brain cancer research. The Foundation is particularly interested in funding novel research that will increase rates of survival and improve functional recovery for individuals with brain cancer. This program is not intended to provide additional funding for ongoing research projects. Rather it is intended to encourage new ideas and approaches, early in their development, that are unlikely to be funded from traditional sources.

Proposals can request up to \$150,000 per year for up to three years. Proposals from junior faculty and from individuals with strong neuroscience, genetics, molecular pathology, and tumor immunology backgrounds interested in pursuing novel research on brain cancer are encouraged. Application deadline is June 15, 1998.

Guidelines for preparing proposals are posted on the Foundation's web site www.jsmf.org.

Contact: James S. McDonnell Foundation
 Email: braincancer@jsmf.org
 Phone: 314-721-1532

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POSITIONS OPEN

FACULTY POSITION BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Department of Biochemistry at Virginia Polytechnic Institute and State University invites applications for a 12-month, tenure-track position at the rank of **ASSISTANT PROFESSOR**. Preference will be given to applicants with potential to develop an externally funded research program that will complement our department's (i) emerging program in the biochemistry and molecular biology of insects of agricultural and medical relevance, or (ii) established programs in signal transduction, the biochemistry/molecular biology of microbial organisms, and enzyme structure-function relationships. Enthusiasm for teaching at the graduate or undergraduate level is essential. The department currently is home to sixteen full-time faculty, twenty postdoctoral researchers and research technicians, eighteen graduate students, and over three hundred undergraduate majors. The adjacent Fralin Center for Biotechnology offers the opportunity to interact with experts on transgenic plants and animals, pathogenic microorganisms, and environmental chemistry. Further information is available through our department website: <http://www.biochem.vt.edu>. Qualifications include a Ph.D. degree, postdoctoral research experience, and significant publications in peer-reviewed journals. Review of applications will begin May 1, 1998, and continue until the position is filled. Applicants should send a curriculum vitae, a short description of their research interests and goals, and three letters of reference to:

Prof. Timothy J. Larson
Chair, Faculty Search Committee
Department of Biochemistry
Virginia Polytechnic Institute and State University
Blacksburg, VA 24061-0308

Virginia Tech has a strong commitment to the principal of diversity and, in that spirit, seeks a broad spectrum of candidates including women, minorities, and people with disability.

CHAIR DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY School of Medicine Oregon Health Sciences University

The Oregon Health Sciences University (OHSU) School of Medicine is seeking applicants for the position of Professor and Chair of the Department of Physiology and Pharmacology. The Department currently has 15 primary faculty members. In addition, the research and teaching programs of the department are enhanced by joint faculty appointments of scientists in the Vollum Institute, the Oregon Regional Primate Research Center, and the Dow Neurological Sciences Institute. OHSU offers a very strong basic science research environment. Candidates should have achieved national recognition for academic accomplishments. Applications including a current curriculum vitae or nominations should be sent to:

Richard Maurer, Ph.D.
Associate Dean
Chair, Physiology and Pharmacology
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Oregon Health Sciences University
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3181 S.W. Sam Jackson Park Road
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TENURE-TRACK POSITION THE HEBREW UNIVERSITY HADASSAH MEDICAL SCHOOL Jerusalem, Israel

The Faculty of Medicine calls for applications for a tenure-track position that will be available for the academic year 1998-99. Ph.D. and/or M.D. degrees and postdoctoral training are required. Excellence in research and teaching experience will be of prime importance for decisions of the search committee. Candidates are expected to develop independent research and take part in teaching commitments in one of the following fields: cell biology, biomolecular modeling, developmental biology, brain research, human genetics, microbial genetics, or cardiovascular physiology. Applications including curriculum vitae, list of publications, three to five selected reprints, a plan of research, and three (3) letters of recommendation should arrive at: **The Dean's Office, P.O. Box 12272, Jerusalem 91120 Israel** no later than May 30, 1998. Website: <http://www.md.huji.ac.il>.

POSITIONS OPEN

THE UNIVERSITY OF TEXAS HEALTH CENTER AT TYLER FACULTY POSITIONS

The University of Texas Health Center at Tyler seeks to fill a number of state-funded faculty positions at all ranks. The research departments are housed in a modern facility equipped with state-of-the-art instrumentation. Start-up funds will be available but successful candidates will be expected to develop an externally funded research program. Teaching requirements are minimal. **ASSISTANT PROFESSORS** will be expected to have completed successful postdoctoral training, have a strong publication record, and show a marked potential to obtain external grant funding. More **SENIOR CANDIDATES** will be expected to have a strong currently funded research program. The Health Center's Mission focuses on basic and clinical research on heart and lung diseases. Current faculty research interests include infectious diseases of the lung, especially TB, asbestos and environment-related diseases, inflammatory cell biology, complement biochemistry, coagulation and fibrinolysis, lung fibrosis, regulation of lung-specific gene expression, oncogenes, RNA structure-function, and bioinformatics. Tyler is situated approximately 100 miles east of the Dallas/Fort Worth metroplex amid the beautiful lakes and piney woods of East Texas. The city, with a population of approximately 100,000, is the regional center for the arts, medical care, and finance as well as for higher education. More information can be obtained at website: www.uthct.edu.

Interested candidates should submit a current curriculum vitae and research plan and have three letters of reference sent to: **Dr. Mark A. L. Atkinson, Chair of Faculty Search Committee, University of Texas Health Center at Tyler, P.O. Box 2003, Tyler, TX 75710.**

Equal Employment Opportunity/Affirmative Action Employer Minorities/Females/Veterans/Disabled. Applications are strongly encouraged from minorities and women.

CHAIR/PROFESSOR BIOMEDICAL ENGINEERING University of California, Los Angeles

An interdepartmental graduate degree program in biomedical engineering has recently been established in the UCLA School of Engineering and Applied Science in cooperation with the School of Medicine and Dentistry and the Divisions of Life and Physical Sciences. Classes leading to M.S. and Ph.D. degrees will commence in September 1998. Applications are invited from candidates with a Ph.D. and/or M.D. degree and with an outstanding research record on topics in biomedical engineering. Nominations of suitable candidates will also be welcomed. The Chair will be responsible for the immediate growth of the Program, its early conversion into an autonomous department, the recruitment of faculty, the further strengthening of existent collaboration between the above-mentioned UCLA units and with industry, and the establishment of a Center for Biomedical Engineering Research. A joint appointment between different units on campus is possible. This search will continue until the position is filled, but review of applications will begin immediately. Requests for confidentiality of applications will be honored. Applications and nominations should be sent to:

Professor John D. Mackenzie, Chair
Biomedical Engineering Search Committee
School of Engineering and Applied Science
7400 Boelter Hall
University of California, Los Angeles
Los Angeles, CA 90095-1600

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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: April 30, 1998. Send curriculum vitae and the names and addresses of three references to: **Department of Biomedical Sciences, UCOM 6108, 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. Minorities/Females/Disabled.*

Lilly Cardiovascular Discovery

Come talk to us at the FASEB Meeting April 18-22 in San Francisco

If you would be interested in interviewing for any of the following positions during the FASEB meeting, please fax your resume to FASEB Recruiting Coordinator at 317-276-4716 by April 10, 1998.

As part of the Cardiovascular Discovery team, you will be involved in finding ways to help patients live healthier, happier lives through innovative cardiovascular pharmaceutical products and services. You will become a member of a multi-disciplinary team focused on one of the following areas: Atherosclerosis, Congestive Heart Failure, Stroke or Thrombosis.

Ph.D. - Thrombosis Research (Pharmacology or Physiology)

A multidisciplinary team of scientists are seeking a highly motivated senior in vivo cardiovascular investigator to join in their search for novel antithrombotic agents. Primary responsibilities include direction of a laboratory program toward development of small animal models of thrombotic disease to study etiologic mechanisms and novel pharmacologic interventions focused upon coagulation. A Ph.D. in Pharmacology or Physiology with 5 years of independent research is preferred. The individual must be sufficiently creative and flexible to effectively address issues ranging from pharmacodynamics to animal modeling of problems that arise during clinical evaluation of drug candidates.

Ph.D. - Bioinformatics

Bioinformatics Scientists and Software Engineers work closely with discovery teams and Genome Scientists to ensure effective use and management of information on biological databases throughout Lilly. An outstanding individual is sought for a number of functions including utilization and integration of gene expression data as well as exploration of novel software technologies in computational functional analysis. Candidates should have a degree and substantial experience in Bioinformatics and/or Molecular Biology.

Ph.D. - Atherosclerosis Research (Biochemistry)

A position is available at the senior scientist level for a Biochemist with extensive background in the biochemistry of metabolic pathways involved in the development of Atherosclerosis and/or insulin resistance. Demonstrated expertise in molecular pathways involved in lipoprotein metabolism and expertise in lipid biochemistry and/or enzymology are required together with an experience in the development of whole animal metabolic studies. Experience with insulin signaling would be preferred.

Ph.D. - Congestive Heart Failure (Biochemistry)

A position is available at the senior scientist level (Ph.D. or equivalent) for a Biochemist with extensive background in experimental protein biochemistry of cardiac cells associated with the development of heart failure. The scientist should have significant experience with the in vitro models (cardiac myocytes, fibroblasts) and the molecular and signaling pathways associated with cardiac contractility changes and fibroplasia. The scientist should have proven experience in the routine use of protein biochemistry, DNA protein interaction, viral transfection, and tissue culture techniques. The capacity to develop functional assays and to interpret functional assays in cardiac cells would be preferred.

Ph.D. - Thrombosis Research (In Vitro Biochemist)

We are seeking a Biochemist with experience in blood coagulation, specifically with the biology and chemistry of coagulation factors and anticoagulants. We expect the scientist to conduct research toward the elucidation of antithrombotic mechanisms and the discovery of novel antithrombotic agents. A qualified candidate would have the ability to integrate basic scientific knowledge and experience into problem solving relevant to drug discovery, interest or experience in the discovery of novel anticoagulant mechanisms and pharmaceutical candidates, interest or experience in the study of mechanisms of thrombosis/antithrombotics/anticoagulants; interest or experience in the development of biochemical assays for use in study of antithrombotic agents and for screening and testing compounds as candidates for anticoagulant drug discovery.

Ph.D. - Thrombosis (Biochemistry)

We are looking for a senior scientist to join an exciting and novel approach in our thrombosis research group. A qualified applicant will need a strong background in enzymology and kinetics with additional experience in hemostasis/thrombosis and/or molecular biology being highly desirable. Skill sets should include enzymology, kinetic analysis with allosteric modulators with enzymes, cell culture, coagulation assays, platelet biology, expressing point mutation of recombinant proteins in mammalian cells, and protein purification.

Ph.D. - Stroke Research (Pharmacology)

A position is available in our Stroke Research Group for a Ph.D. level scientist with expertise in animal models of cerebral ischemia. Demonstrated experience in use of behavioral and/or neurological assessment during prolonged recovery would be an advantage. Experience with testing neuroprotectant strategies is preferred.

Ph.D. - Stroke Research (Enzymology/Biochemistry)

We are looking for a senior scientist to join a multi-disciplinary team developing novel therapeutics for the treatment of acute ischemic stroke. Candidate will be expected to have a strong background in enzymology - kinetic analysis, structure-function and inhibitor characterization. The ability to integrate enzymology expertise with an understanding of cell biology and the pathophysiology of cerebral ischemia is expected.

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Berlin Molecular Medicine Association (BMMA)

Berlin Max Planck Institutes, Free University Berlin,
German Institute for Nutrition Research Potsdam,
German Rheuma Research Center Berlin, Humboldt University Berlin,
Max-Delbrück-Center for Molecular Medicine (MDC) Berlin-Buch,
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Resource Center of the German HUGO Berlin,
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This is a senior scientific position responsible for the design, conduct, reporting and management of IND, BLA and NDA enabling programs. Position is responsible for all scientific issues related to preclinical and clinical ADME, toxicology, pathology, biopharmaceutics and associated product development strategies. Position requires a minimum of 7-10 years of relevant experience in the biopharmaceutical industry with direct involvement and responsibilities in the development of small molecules and biotechnology-derived products. A Ph.D, D.V.M. or equivalent, specific expertise in pathology; toxicology, pharmacology, or pharmacokinetics, and a strong publication record is required. Initial preference is for a pathologist trained in veterinary pathology or toxicologic pathology; however, candidates with credentials in the scientific disciplines noted above are urged to apply. The ability to perform independently and collaboratively in a matrix environment is essential for a successful candidate. Prior experience working with interdisciplinary project teams and with CROs is essential. **Job Code: JT/MD**

SCIENTIST - TOXICOLOGY

An entry level scientific position that is responsible for assisting in the design, conduct and reporting of toxicology studies conducted to support IND, BLA and NDA programs. A Ph.D. in toxicology, specific expertise in immunotoxicology and a publication record indicative of strong scientific potential is required. An exceptional post-doctoral candidate or person who has completed a recent post-doctoral appointment in a relevant area of toxicology and is interested in an industrial career would be considered ideal. **Job Code: JT/ST**

SCIENTIST - PHARMACOKINETICS AND METABOLISM

An entry level scientific position that is responsible for assisting in the design, conduct and reporting of pre-clinical pharmacokinetic and metabolism studies conducted to support IND, BLA and NDA programs. A Ph.D. or equivalent, specific expertise in pharmacokinetics and metabolism issues and a publication record indicative of strong scientific potential is required. An exceptional post-doctoral candidate or person who has completed a recent post-doctoral appointment in a relevant scientific area and is interested in an industrial career would be considered. **Job Code: JT/SPM**

ASSOCIATE SCIENTIST

In this Scientific position you will be responsible for assisting in the design, conduct and reporting of preclinical and clinical pharmacokinetic and metabolism studies conducted to support IND, BLA and NDA programs. A MS in a basic science, specific experience in pharmacokinetics and metabolism issues and a publication record indicative of scientific ability is required. **Job Code: JT/AS**

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Examine stimulatory pathways of non-hematopoietic cell types and how these pathways relate to disease. Requires a BS or MS in Biology, Immunology or related field, with 5 years' laboratory experience. Required skills include tissue culture, preparation of primary cultures from tissue, molecular biology techniques and cell surface staining with mAbs for FACS analysis. Computer skills and animal handling experience also necessary. **Job Code: RC-ASI**

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SCIENTIST/SENIOR SCIENTIST: MOLECULAR BIOLOGY-CYTOGENETICS

Genos Biosciences, Inc., a San Diego-based, privately held joint venture between AxyS Pharmaceuticals and Memorial Sloan-Kettering Cancer Center, is seeking an innovative Scientist/Senior Scientist with expertise in molecular cytogenetics. Experience in whole genome analysis methods, such as comparative genome hybridization (CGH), is required. Additional experience with high-density screening using microarray systems would be highly advantageous. Strong written and oral communication skills are essential as well as the ability to work effectively and interactively as a team member. This position requires a Ph.D. or M.D./Ph.D. and at least 3-5 years research experience in industry or academia and preferably related to molecular oncology.

Genos Biosciences, Inc. offers a highly competitive salary and excellent benefits. Please mail/fax résumés to: **Genos Biosciences, Inc., Human Resources, Attn: Administrative Manager, 11099 North Torrey Pines Road, Suite 220, La Jolla, CA 92037; FAX: (619) 558-7331.**

POSTDOCTORAL POSITIONS IN TRANSCRIPTIONAL REGULATION

Postdoctoral positions are available to study gene regulation and transcriptional mechanisms in mammalian systems. The following faculty members, who meet on a regular basis to discuss their mutual interests in transcriptional regulation, have postdoctoral training positions available for NIH-supported research in their laboratories.

**Mount
Sinai**

Carter Bancroft, PhD. (Physiology & Biophysics, Box 1218). Molecular mechanisms in pituitary gene expression, and identification of novel prostate cancer genes.

Margaret H. Baron, M.D., PhD. (Hematology, Box 1079). Gene regulation during hematopoietic differentiation and development.

Scott Friedman, M.D. (Liver Diseases, Box 1123). Transcriptional and signaling mechanisms in hepatic cells underlying the wound healing response in liver disease.

Jonathan D. Licht, M.D. (Molecular Biology, Box 1126). Aberrant transcriptional regulators in human cancer.

Franceso Ramirez, PhD. (Molecular Biology, Box, 1126). Regulation of collagen genes and mesenchyme-specific transcription.

Individuals with training in molecular biology and/or biochemistry will be given preference. Interested candidates should send curriculum vitae and names, addresses, and phone numbers of three references to one or more of the above faculty members (please indicate department and Box number) at: **Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** We are an equal opportunity employer fostering diversity in the workplace.

The Mount Sinai Medical Center

POSTDOCTORAL FELLOWSHIPS & STUDENTSHIPS AVAILABLE

Applications are invited from prospective postdoctoral fellows and M.Sc. or Ph.D. students interested in basic perinatal research in either physiology, immunology, endocrinology, or pharmacology.

- Postdoctoral fellows with excellent academic and publication records who have received their graduate degrees within the last three years will be considered.
- Graduate students will be assessed primarily on academic standings.

Members of the Perinatal Research Centre at the University of Alberta are conducting leading-edge research in a number of important areas, including:

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- Fetal growth
- Molecular Biology of steroid receptors
- Anatomy and Embryology

Successful candidates will be associated with the appropriate academic department of their choice.

Check out our homepage for more details: [Http://www.ualberta.ca/PERINATAL/](http://www.ualberta.ca/PERINATAL/).

Please forward a letter of inquiry, CV, and most recent transcripts to:
**Eileen Marco, Perinatal Research Centre,
220 Heritage Medical Research Centre
University of Alberta, Edmonton, Alberta
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Tel: (403) 492-2765

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e-mail: perinarc@gpu.srv.ualberta.ca



**Clinical Research in Retrovirology
at the National Cancer Institute
Frederick Cancer Research and
Development Center
Frederick, Maryland**

Announcement Number:
CA-97-1109-CT

The National Cancer Institute is seeking scientists conducting clinical or translational research on *in vivo* models of human retrovirus pathogenesis and retroviral population dynamics. The successful candidate(s) will join a new program at the NCI-Frederick Cancer Research and Development Center (NCI-FCRDC) that will emphasize basic, clinical, and translational research in human retrovirus pathogenesis, retroviral genetic diversity and drug resistance, the biochemistry of viral enzymes, the mechanisms of genetic variation, small animal studies, and medicinal chemistry. In collaboration with **Dr. John Coffin**, this NCI-FCRDC program is the focal point of a major retrovirus research center in an excellent research environment with very strong support personnel and services, extensive opportunities for collaborations within and outside the NCI community, and access to clinical facilities and support.

Successful candidates must be self-directed scientists with a medical and/or Ph.D. degree who will conduct independent, investigator-initiated studies. A fully equipped laboratory and technical support will be provided. The positions may be filled at any level—from Tenure-Track Investigator (Assistant Professor) to Senior Investigator (Full Professor), including Medical Officer with potential physician special pay. The total annual compensation will be commensurate with experience, accomplishments, and education.

To apply, please forward a curriculum vitae, bibliography, the names and addresses of 5 referees, and a detailed description of research interests to:

Dr. Marjorie C. Strobel (1109-CT)
Executive Secretary
NCI-FCRDC Retrovirology Search
Committee
Building 428, Room 39
Miller Drive
Frederick, MD 21702-1201

Applications may also be faxed to (301) 846-6092. The Search Committee will begin reviewing complete applications by April 1, 1998. All applications must be postmarked by May 1, 1998, late applications can not be considered. For additional information, please call **Susan Nelson**, at (301) 846-5936 or (301) 846-1302.

Selection for these positions will be based on merit, without discrimination for nonmerit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization.

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FIRST ANNOUNCEMENT

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This course is designed for researchers with a background in molecular biology and genetics, interested in applying their knowledge to complex biological systems such as skin and its adnexa, including the mammary gland. This week-long intensive course will involve theoretical lectures as well as practical "hands-on" sessions on culture and manipulation of skin cells of various types.

Practical topics will cover: culture of primary human and mouse keratinocytes, melanocytes, dermal fibroblasts, endothelial cells, mammary epithelial cells; organotypical cultures; gene transfer techniques; skin reconstitution assays.

Theoretical lectures will include: development of the skin; keratinocyte and melanocyte growth/differentiation control; angiogenesis; mammary gland biology; the immune function of the skin; skin as vehicle for gene therapy.

Confirmed speakers include: **H. Baden** (Harvard), **G. Barsh** (Stanford), **R. Burgeson** (Harvard); **C. Brisken** (Whitehead), **C. Daniel** (UCSF), **M. Detmar** (Harvard), **G. P. Dotto** (Harvard), **R. Halaban** (Yale), **T. Kupper** (Harvard), **N. Parenteau** (Organogenesis), **J. Parrish** (Harvard), **J. Rheinwald** (Harvard), **D. Roop** (Baylor), **K. Stenn** (Johnson & Johnson), **J. Sundberg** (Jackson Labs), **L. Taichman** (SUNY), and **B. Wentworth** (Genzyme).

Organized by **G. Paolo Dotto**.

The course is limited to 10–12 students. Application deadline is June 1, 1998. Tuition is \$150 and includes registration and meals. A limited number of rooms have been reserved at a nearby location at a discounted rate. To apply, send a CV and statement of interest to: **Cinde L. Clatterbuck, MGH-EAST, CBRC, Bldg. 149, 13th Street, Charlestown, MA 02129. Fax 617-726-4189.**

For more information, please visit the CBRC home page at: cbrc-a12.mgh.harvard.edu. (see symposia).

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Fellowship**



Isis Pharmaceuticals, a dynamic biopharmaceutical company and a leader in antisense technology, has an exceptional opportunity for a Postdoctoral Fellow to study the molecular mechanism of antisense drugs. The selected candidate must have a Ph.D. and experience in molecular biology, biochemistry, enzymology, and pharmacology.

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To qualify, candidate must have a Ph. D. in Science/Biology related field or equivalent education and 5 years experience in the pharmaceutical or biological industry. Strong scientific background with knowledge of cGMP and FDA regulations, guidelines and procedures is also required. (Respond to Job Code DRA-1).

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Seeking a talented Ph. D. in Microbiology or Biochemistry (virology specialty) with Post-Doctoral work in Research, Development or Analytical Testing areas of the pharmaceutical industry. Minimum of 5 years experience in scientific field with an established publication record. Experience with Electronic Document Management and familiarity with project planning desirable.

Individual must be able to make sound and creative recommendations for scientific principles as they relate to product safety, identity, characterization, performance and consistency. Individual will be responsible for providing regulatory activities and submissions (IND's, PLA's, ELA's and BLA's) to the Center for Biologics Evaluation and Research (CBER), as well as act as a liaison to CBER Regulatory Authorities for submissions of assigned projects. (Respond to Job Code DRA-2).

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Attn: Technical Support
575 Science Drive
Madison, WI 53711



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The Department of Microbiology, University of Pennsylvania School of Medicine invites applications for tenure-track positions at the Assistant Professor level. Candidates should have outstanding credentials in the field of virology. Major responsibilities will include supervision of an active research program and teaching virology to graduate and medical students. Applicants should submit a curriculum vitae, summary of research accomplishments, description of future plans and three letters of reference by May 8, 1998 to:



Dr. Nigel Fraser, Chair
Virology Search Committee
Department of Microbiology
University of Pennsylvania
225 Johnson Pavilion
3610 Hamilton Walk
Philadelphia, PA 19104-6076

Letters should be marked "Virology SEARCH."

We encourage e-mail applications to

fraser@wista.wistar.upenn.edu

Web Site Address: www.med.upenn.edu/micro/

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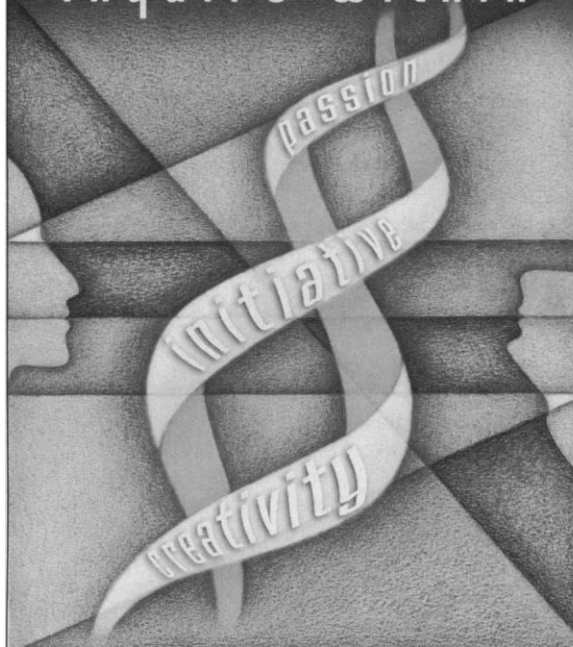
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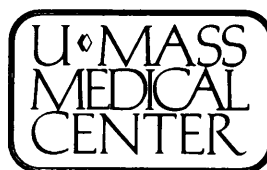
DEPARTMENT OF MEDICINE UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

The Department of Medicine, University of Massachusetts Medical School, invites applications for the position of Director, Division of Endocrinology and Metabolism. The candidate should have an internationally recognized research program, and have clinical and academic credentials commensurate with an appointment at the level of Professor. The University of Massachusetts Medical School is experiencing rapid growth of its research programs. NIH funding is among the upper 30% of all U.S. medical schools. The Endocrinology Division has major responsibilities in the areas of clinical and research fellowship training, and medical student and post-graduate education.

Applicants should submit their curriculum vitae with

names of five references to: **Robert B. Zurier, M.D., Chair, Endocrinology**

**Search Committee, Department of Medicine,
University of Massachusetts Medical School,
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PH.D. SCIENTIST - BIOCHEMISTRY & MOLECULAR BIOLOGY

We are seeking a candidate with experience in cloning, gene expression, protein purification/characterization and the development of biochemical assays for high throughput screens. In addition, the successful candidate will possess an ability to interact with a multidisciplinary team of scientists using the tools of genomics in the identification, selection and analysis of novel antibacterial targets in our pathogen biology program. A background in bacterial molecular genetics and whole cell screens is a plus.

FUNCTIONAL GENOMICS

PH.D. SCIENTIST/ M.S. SCIENTIST

We are seeking candidates with general experience in the use of protein-protein interaction analysis tools, with special emphasis on yeast to hybrid technology. Qualified candidates will have an ability to interact with multidisciplinary teams of scientists applying complementary tools of genomics in the area of signal pathway discovery.

HUMAN GENETICS DIRECTOR

In this high profile role, the Director will initiate research programs focused on human disease gene discovery; lead interdisciplinary research teams composed of scientists with backgrounds in statistical genetics, genotyping, physical mapping, transcript identification, DNA sequencing and mutation detection to define the genetic basis of specific human diseases; and identify genes involved in human disease etiology. Additional responsibilities will include establishing collaborations with academic research groups in different areas of human genetic disease, interfacing with corporate partners and managing multi-year collaborative research alliances in specific disease areas.

Qualified candidates must have Ph.D. and/or M.D. with 7-10 years of post-doctoral experience in human genetics and positional cloning. Demonstrated experience in the area of disease gene discovery, interest in the genetics of complex diseases and working knowledge of statistical and population genetics are required. Strong leadership skills and the ability to motivate and manage large interdepartmental research teams are also required. Interest and experience in the genetics of asthma or cardiovascular disease is preferred. Commercial pharmaceutical or biotech company experience is a big plus.

Please send resume to: **Genome Therapeutics Corporation**, 100 Beaver Street, Waltham, MA 02154, Attn: Human Resources; Fax: (781) 893-8277.

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1. A position in the Plant Gene Expression Group for developing conditional and/or enhanced expression systems to regulate transgenes in plants. Additional experience in transcription factors, regulatable promoters, other DNA regulatory elements, or plant transgenic work is desired.
2. A position in the area of engineering secondary metabolic pathways in soybean. Additional experience in biochemistry or plant physiology is required.
3. A position in the area of developing viral vector expression systems. Additional experience in biochemistry or plant virology is desired.

We are looking for highly motivated individuals who can become members of our research teams to enhance both our success as well as their own. You will enjoy our state-of-the-art facilities and also have access to an active genomics group that includes a large EST sequencing program with advanced bioinformatics capability. The positions offer a highly competitive salary and an excellent benefits package. We are located in Wilmington, DE, an area that offers an attractive lifestyle with easy access to all cultural, academic and recreational activities on the Eastern Seaboard.

Interested candidates should submit their CV including a list of references to: DuPont Central Research & Development, Human Resources, Wilmington, DE 19898. Or, you may fax it to: 800-631-2206. Job code: CRD98-2111 must appear on all responses. DuPont is an Equal Opportunity employer.



**DuPont Central Research
and Development**

**Basic Research on Animal Models of
Retroviral Pathogenesis
at the National Cancer Institute
Frederick Cancer Research and
Development Center
Frederick, Maryland
Announcement Number:
CA-97-1109-AM**

The National Cancer Institute is seeking scientists conducting basic or translational research employing and/or developing small animal model systems to study retrovirus pathogenesis, genetic diversity, and viral population dynamics. The successful candidate(s) will join a new program at the NCI-Frederick Cancer Research and Development Center (NCI-FCRDC) that will emphasize basic, clinical, and translational research on human retrovirus pathogenesis, retroviral genetic diversity and drug resistance, the biochemistry of viral enzymes, the mechanisms of genetic variation, small animal studies, and medicinal chemistry. In collaboration with **Dr. John Coffin**, this NCI-FCRDC program is the focal point of a major retrovirus research center in an excellent research environment with very strong support personnel and services and extensive opportunities for collaborations within and outside the NCI community. The NCI-FCRDC and the National Institutes of Health Animal Center in nearby Poolesville, Maryland have excellent facilities and services, as well as caretaking, technical and veterinary staffs, to support rodent and non-human private studies.

Successful candidates must be self-directed scientists with a Ph.D. and/or medical degree who will conduct independent, investigator-initiated studies. A fully equipped laboratory and technical support will be provided. The positions may be filled at any level—from Tenure-Track Investigator (Assistant Professor) to Senior Investigator (Full Professor), including Medical Officer with potential physician special pay. The total annual compensation will be commensurate with experience, accomplishments, and education.

To apply, please forward a curriculum vitae, bibliography, the names and addresses of 5 referees, and a detailed description of research interests to:

**Dr. Marjorie C. Strobel (1109-AM)
Executive Secretary
NCI-FCRDC
Retrovirology Search Committee
Building 428, Room 39
Miller Drive
Frederick, MD 21702-1201**

Applications may also be faxed to (301) 846-6092. The Search Committee will begin reviewing complete applications by April 1, 1998. All applications must be postmarked by May 1, 1998; late applications cannot be considered. For additional information, please call **Susan Nelson, at (301) 846-5936 or (301) 846-1302.**

Selection for these positions will be based on merit without discrimination for non-merit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization.

**THE NATIONAL CANCER INSTITUTE IS
AN EQUAL OPPORTUNITY EMPLOYER.**



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
POSTDOCTORAL PROGRAM
National Health and Environmental Effects Research Laboratory**

The U.S. Environmental Protection Agency (EPA) is seeking candidates to fill as many as **50 federal, three-year postdoctoral positions** during the coming year. As part of this effort, a number of these positions will be filled at the EPA's National Health and Environmental Effects Research Laboratory (NHEERL). NHEERL is EPA's focal point for scientific research on the effects of contaminants and environmental stressors on human health and ecosystem integrity. NHEERL conducts research that helps EPA understand the processes that cause pollution and evaluate the risks that pollution poses to humans and ecosystems. NHEERL utilizes a multidisciplinary approach to solving research problems. Assimilation and integration of information across environmental disciplines and across multiple levels of biological organization (from molecular to the whole organism, and from the organism to the ecosystem levels) strengthen analyses of environmental issues.

Because of NHEERL's broad research mission and multidisciplinary approach, we are seeking candidates from a wide range of disciplinary backgrounds. The preferred candidate will have earned a Ph.D. in one of the following areas (or a closely related field): biology (e.g., cell, developmental, molecular, reproductive), biochemistry, biomedical or chemical engineering, ecology (e.g., aquatic, coastal systems, coral, ecosystem, estuarine, landscape, marine, microbial), ecotoxicology, endocrinology, epidemiology, geographic information science, geomorphology, geostatistics, genetics, immunology, microbiology, neurobiology, pharmacology, pharmaceutical sciences, plant physiology, population/community modeling, physical chemistry, physiology, or toxicology.

NHEERL is organized into nine divisions that specialize in a different field of environmental health or ecology research. NHEERL anticipates postdoctoral positions will be filled in each of its divisions, which are located at various geographical locations. Postdoctoral positions to conduct research on environmental health are anticipated for divisions located in Research Triangle Park and Chapel Hill, NC. Postdoctoral positions to conduct ecology research are anticipated for divisions located in Duluth, MN; Gulf Breeze, FL; Corvallis and Newport, OR; and Narragansett, RI. To obtain specific information on the scientific research projects proposed for the NHEERL postdoctoral positions, you may access the NHEERL Internet site at: <http://www.epa.gov/nheerl/>.

These positions are **three-year excepted service appointments** offering a salary range of **\$31,897 – \$60,135**, commensurate with qualifications. The selected candidates will be eligible for a full benefits package, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave.

If you are interested in these postdoctoral positions, please send a curriculum vitae, a letter of recommendation from your senior research advisor, or other comparable official, and a letter indicating your research interests and preferred geographical location(s) to: **Ms. Karen Dean, ATTN: Post-Doc Recruitment, National Health and Environmental Effects Research Laboratory (MD-85), Research Triangle Park, NC 27711.** Please send all responses no later than April 30, 1998.

For more information on the complete EPA postdoctoral program, you may access the Office of Research and Development's Internet site at <http://www.epa.gov/ord/>.

The U.S. EPA is an Equal Opportunity Employer.

PENNSTATE
College of Medicine
1855

**DIRECTOR, JAKE GITTLEN
CANCER RESEARCH INSTITUTE
John W. Kreider
Chair for Cancer Research**

The Pennsylvania State University College of Medicine at the M.S. Hershey Medical Center invites nominations and applications for the position of Director of the Jake Gittlen Cancer Research Institute. We seek outstanding candidates who are committed to cancer research, currently direct a productive and well funded research program, and are providing seminal insights into cancer biology and the prevention or treatment of human cancer. The candidate should possess an M.D., M.D./Ph.D., or Ph.D. degree and have a distinguished record of research, teaching, mentoring, and leadership. The individual will have an academic appointment within the Department of Pathology and/or other appropriate departments within the College of Medicine. The individual will also occupy an Endowed Chair which will be established to honor Dr. John W. Kreider for his outstanding contributions to cancer research and to recognize his leadership role as Co-founder and Director of the Jake Gittlen Cancer Research Institute. Review of applications will commence immediately and will be accepted through July 1, 1998, or until the position is filled. Please submit a curriculum vitae, a statement of research accomplishments and future objectives, and the names and addresses of three references to: **Richard J. Courtney, Ph.D., Chair, Jake Gittlen Cancer Research Search Committee, H107-S, Pennsylvania State University College of Medicine, 500 University Drive, Hershey, PA 17033-0850. AA/EOE**

MEETING

**Basic Science:
Research for a Cure
and Prevention**

September 14-16, 1998

**Georgetown University
Conference Center
Washington D.C.**

**National Foundation for
Cancer Research and
Georgetown University Medical Center,
Office of Continuing Professional Education**

The faculty consists of world-renowned scientists who work to dramatically improve the way cancer is diagnosed, treated and controlled. Topics include: Molecular Genetics of Cancer, DNA Replication and Repair, Macromolecular Interactions: Lessons for Signaling and Drug Discovery, Small Molecule Gene Therapy, Unique and Novel Targets, Cellular Targets and Therapies, Theoretical Drug Design, Nutrition, Chemoprevention, and Vaccines.

**Professional Meeting Planners,
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Stoneham, MA 02180
Phone: 800-378-6857x200 or
781-279-9887x200
Fax: 781-279-9875
E-mail: PMPMeeting@aol.com**

EXHIBIT SPACE IS AVAILABLE

Insect and Plant Molecular Biology Positions

Agricultural Chemicals Discovery Research at Rohm and Haas Company has openings for highly motivated researchers at doctoral and MS/BS levels. These positions are located at our Corporate Research Center in Spring House, PA – ten miles north of Philadelphia. The scientists will work in the Insecticide or Herbicide Research groups, discovering novel and eco-toxicologically safe pesticides.

Candidates for each technical area should have a strong background and research experience in applying molecular biology techniques to study insect or plant biochemical and physiological processes. The work will involve utilizing molecular biology (cloning and expression of genes) and biochemical techniques for assay development, identification of novel biochemical targets, and mode of action research.

The PhD biological scientists should have at least two years of postdoctoral experience in insect or plant molecular science. They will have responsibility for independent research, as well as collaborative work in interdisciplinary project teams. Candidates for the MS/BS positions must have a degree (preferably MS) in molecular biology and at least two years of laboratory experience in the use of molecular biology techniques to study insect or plant biochemistry and physiology. For those applying for either insect molecular biology position, knowledge and experience in insect toxicology is a distinct advantage.

Rohm and Haas Company offers a highly competitive salary and benefits program, including relocation assistance and profit sharing. We are also committed to the professional development of our Research staff. We are an Equal Opportunity Employer. Candidates must be legally authorized to hold regular employment in the U.S. Please specify which opening you wish to be considered for and send your c.v. or resume before **May 15, 1998**, to: **Technical Recruiting #298, Rohm and Haas Laboratories B-70, 727 Norristown Road, Spring House, PA 19477-0904**, or by e-mail to techstaff@rohmmaas.com



National Center for Genome Resources

*Due to our rapid growth in the fields of bioinformatics and agricultural genomics, NCGR in **Santa Fe, New Mexico**, is seeking the following individual:*

Agricultural Genomics Group Leader

Highly motivated and accomplished agricultural scientist needed to assist in developing and managing a team focused on a major national and international effort in agricultural genomics. Will work with experienced scientists, as well as database and software development staff in implementing NCGR's growing agricultural genomics program. This is an exciting opportunity for helping bring agricultural systems into the genomic and post-genomic era. Required: Ph.D., relevant post-doctoral experience, demonstrated success in writing and funding of competitive grants, and demonstrated experience, managing research and collaborative projects. Desirable: first-hand experience in managing genomic projects or genomic data; experience with agribusiness.

To find out more about NCGR, you may access our home page at www.ncgr.org.

E-mail to: hr@ncgr.org
(in ascii or postscript format)
via fax to: 1-505-995-4461
via mail to: NCGR
1800-A Old Pecos Trail
Santa Fe, NM 87505 EOE.

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FOR MORE INFORMATION CONTACT:

U.S.: Bren Peters
Phone: 202-326-6541
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Europe: Debbie Cummings
Phone: 44 (0) 1223 302 067
Fax: 44 (0) 1223 576 208
E-mail: european_ads@science-int.co.uk

Neuropharmacological Senior Scientist

Astra is a pharmaceutical company in a phase of rapid growth. Operations, which are highly international, encompass research, production and marketing of pharmaceuticals through subsidiaries, agents and licensees around the world. The Group has approximately 17,000 employees, of whom 6000 are in Sweden. Sales in 1996 totalled 8 billion Canadian dollars.

Astra Pain Control in Sweden is a research company within the Astra Group with about 270 employees. Its products dominate the world market for local anesthetics. The company has recently established a research and development centre in Montreal, a division of Astra Pharma Inc. Canada, and is actively recruiting for the following position:

Astra Research Centre in Montreal is seeking a candidate to fulfil the role of Senior Scientist for neuropharmacological studies. As a successful candidate; you hold a Ph.D. in Neuroscience, specifically in *in vivo* Pharmacology, and have experience in the pharmaceutical industry or academic environment. (Temporary contract leading to a permanent position.) Bilingualism is an asset.

Astra offers a professional work environment to the successful candidate. If you are motivated by the challenges of this position, please send your résumé, by April 6, 1998, quoting reference DG-SSP, to:

Astra Research Centre Montreal,
Human Resources, 7171 Frederick Banting,
Ville St-Laurent, Quebec H4S 1Z9.

We thank all applicants for their interest, however, only those being considered will be contacted.

No telephone enquiries or agencies, please.

An Equal Opportunity Employer.



University of Minnesota Developmental Genetics Center Postdoctoral Positions Available

Postdoctoral positions are available for research in the laboratories of the Developmental Genetics Center (DGC) at the University of Minnesota Medical School. Requirements of these positions include the demonstration of ability to perform high quality research, and applicants with backgrounds in development will be given preference. The ability to interact and collaborate within the various research groups is strongly encouraged. Positions are funded through local sources as well as faculty and postdoctoral initiated research grants. Research interests of the DGC faculty are:

Chris Wylie (DGC Director) and **Janet Heasman**: Adhesion, migration, and determination of mouse primordial germ cells. Function of material gene products in early *Xenopus* development. E-mail: wylie@lenti.med.umn.edu; heasman@lenti.med.umn.edu; www.cbc.umn.edu/~wylie

David Zarkower: Sex determination and sexual differentiation in *C. elegans*, mouse, and human. E-mail: zarkower@lenti.med.umn.edu

Michael O'Connor: Cell-cell signaling and regulation of gene expression in *Drosophila*. E-mail: moconnor@lenti.med.umn.edu

Jamie L. Lohr: Study of the molecular regulation and cellular mechanisms of cardiac looping of *Xenopus*. E-mail: lohrr003@maroon.tc.umn.edu

Stephen C. Ekker: Molecular basis of early patterning events in zebrafish and *Xenopus* embryos. E-mail: ekker@brain.biochem.umn.edu; www.med.umn.edu/dgc/ekker

Electra Coucouvanis: Control of apoptosis and cell differentiation during early embryonic development of the mouse. E-mail: electra@lenti.med.umn.edu

Please send a curriculum vitae, research statement, and three letters of recommendation to:

Arllys Clements, University of Minnesota Institute of Human Genetics
Developmental Genetics Center Postdoctoral Search
Box 206 Mayo; 420 Delaware Street S.E.
Minneapolis, MN 55455-0392 USA

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



Agricultural
Research
Service

UNITED STATES DEPARTMENT OF AGRICULTURE

**Formosan Subterranean Termite
Research Unit
Research Chemists/Microbiologists/
Entomologists/Engineers**

The Southern Regional Research Center, New Orleans, Louisiana is establishing a Formosan Subterranean Termite Research Unit consisting of an interdisciplinary team to evaluate and improve methods for the detection and control of the FST, and develop novel toxicants and control technologies. Scientists will work in a well funded program in a fully equipped newly renovated facility employing approximately 90 scientists having a wide range of scientific disciplines. Positions available immediately are listed below.

Supervisory Research Entomologist/Microbiologist/Chemist/Ecologist - GS-14/15 - As Research Leader, the appointee directs an interdisciplinary unit emphasizing cooperation in chemical ecology; nutrition; physiology; microbiology; evaluations of novel toxicants; physical barriers; and engineering for termite control. The Unit will consist of 8 Research Scientists and numerous support personnel. The position requires scientific and technical knowledge to identify, focus, and prioritize a broad spectrum of approaches, and knowledge and skill in the management of human and physical resources. Applications must be marked with announcement # ARS-D8S-8104.

Research Chemist - GS-12/13/14 - to develop understanding of pheromones and other semiochemicals and their relation to insect behavior with an eye toward utilizing such chemicals in an integrated program of FST population management and control. Knowledge of insect biochemistry and physiology is required. Applications must be marked with announcement # ARS-D8S-8058.

Research Entomologist (Field Ecologist) - GS-12/13/14 - quantitate termite populations and validate measures of termite control efficacy in large-area tests. Knowledge of integrated pest management strategies in urban settings and in urban and suburban forest ecosystems, and knowledge of insect control methodologies. Applications must be marked with announcement # ARS-D8S-8057

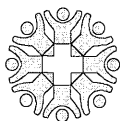
Research Entomologist (Nutritionist) - GS-12/13/14 - determine termite nutritional requirements to enhance consumption and directed targeting of termites to bait stations to improve control. Knowledge of insect field population characterization and quantitation and of termite or insect nutritional requirements. Applications must be marked with announcement # ARS-D8S-8056.

Mechanical Engineer - GS-12/13/14 - improve bait stations, physical termite barriers for directing termites, and develop strategies for the effective placement of the bait stations. Knowledge of the fundamental and practical aspects of structural engineering, and pre- and post-construction management practices for improved termite control. Applications must be marked with announcement # ARS-D8S-8059.

Additional positions will include: 1) Toxicologist to investigate new chemistries for termite control, 2) Microbiologist who will investigate intestinal microflora and/or pathogens as potential biological control agents; and 3) Behaviorist to determine attractiveness/repellency of plants/microbes or their metabolites, responses to control or detection measures, and behavioral effects of sublethal doses of toxins to effect colony control.

POSITION REQUIREMENTS: Must be a U.S. citizen. Ph.D. degree is desirable. Must have demonstrated research accomplishments in the research area. Salary commensurate with experience. SALARY RANGE - GS-12 - \$46,254-\$60,135; GS-13 - \$55,004-\$71,503; GS-14 - \$64,998-\$84,495; GS-15 - \$76,456-\$99,397. Further details, contact **Dr. Alan Lax**, USDA, ARS, SRRC. Telephone: 504-286-4472. E-Mail: alax@nola.srrc.usda.gov. For information on application procedures, contact **Karen M. Benedict**, telephone 301-344-3955 or E-Mail - kbenedict@ars.usda.gov.

Applications in response to this advertisement must be marked with the announcement # and sent to: **Karen M. Benedict**, USDA, ARS, HRD, Southern Operations Branch, 6305 Ivy Lane, Room 345, Greenbelt, MD 20770. Applications must be postmarked by April 13, 1998. ARS is an Equal Opportunity Employer.



Northwest Hospital Pacific Northwest Cancer Foundation

ASSOCIATE/FULL MEMBER POSITIONS DEPARTMENT OF MOLECULAR MEDICINE

The PNCF is located in Seattle, WA and is affiliated with Northwest Hospital, a community hospital committed to state-of-the-art medical care and which emphasizes research relevant to human cancer with the ability to move bench science into the clinic. The PNCF is planning on relocating to new facilities with a significant increase in space. The opportunity exists to be involved in developing the future of the Foundation and its research programs. Applicants are sought from individuals who have a proven record of accomplishment with respect to building successful research programs as evidenced by maintaining a well-funded program and by peer-reviewed publications.

Position 1. Associate Director, Department of Molecular Medicine. An individual with abilities and foresight is sought to help administer a program in Molecular Medicine that is focused on carcinogenesis and to conduct his/her own funded research program. Administrative skills, knowledge of extramural funding sources and procedures, and matured interpersonal skills are required. Current programs focus on carcinogenesis, tumor promotion, cell signaling, and tumor suppressor genes. We seek an individual with cellular/molecular approaches to carcinogenesis that scientifically complement existing programs.

Position 2. Associate/Full Member. A cancer immunologist is sought who has established a vigorous and funded research program. Areas of interest are in the basic understanding of tumor antigen processing, presentation, and recognition. Clinical trials are currently being conducted at the PNCF using dendritic cells in prostate cancer patients. The challenge to build a significant research program with an opportunity to move basic science into the clinic is available.

Applicants only with funded programs should apply and hold the Ph.D., M.D., or M.D./Ph.D. degree. Please respond with CV and a concise statement of qualifications and research plans. Mail to: **Alton Boynton, Ph.D., Director of Molecular Medicine, PNCF 120 Northgate Plaza, #230, Seattle, WA 98125.**



The University of Memphis

CELLULAR AND MOLECULAR BIOLOGY

Nominations and applications are solicited for the endowed W. Harry Feinstone Chair of Excellence in Cellular and Molecular Biology. The chair is the second to be established within the Department of Microbiology and Molecular Cell Sciences at The University of Memphis.

The successful candidate will have an established record of significant achievement in research at the molecular or cellular level as evidenced by a strong record of extramural support and publications. As an active team builder, the candidate will assume a position of research leadership within the Department and the newly formed Feinstone Institute of Molecular Biology, an interdisciplinary research center.

The Chair will have discretionary income from the endowment to supplement external support. Opportunities for collaboration exist across the University and with investigators at the University of Tennessee, Memphis and St. Jude Children's Research Hospital.

Nominations and applications, should be submitted to Dr. Don Franceschetti, Chair, Feinstone Chair of Excellence Search Committee, Department of Microbiology and Molecular Cell Sciences, The University of Memphis, Memphis, TN 38152. Consideration of candidates will begin April 16, 1998 and continue until the position is filled.

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

POSITIONS OPEN

HAIR, DEPARTMENT OF PATHOLOGY SCHOOL OF MEDICINE University of California, San Francisco

The School of Medicine at University of California, San Francisco seeks an outstanding individual to lead its Department of Pathology, one of the preeminent departments in the nation. The successful candidate will have exceptional administrative and organizational skills and a national reputation as a leader in academic medicine. The individual chosen will have major responsibilities in medical education and in the overall direction of the research activities of this department. In addition, he or she should be committed to strengthening and expanding the department's clinical program in the context of health care reform. Applicants must be qualified for appointment as a Professor in the Department of Pathology.

Applicants should send a curriculum vitae no later than May 15, 1998, to:

**Dr. William Seaman, M.D., Search Committee Chair
c/o Diana Naisby
Office of the Dean, School of Medicine
513 Parnassus, Room S-224
San Francisco, CA 94143-0410**

University of California, San Francisco is an Equal Opportunity/Affirmative Action Employer. All qualified candidates are encouraged to apply, including minorities and women.

FACULTY RESEARCH

The Division of Nephrology at Duke University is seeking an individual for a tenure-track position in basic science research. We are seeking interactive individuals who are committed to leading a vigorous independent research program. We are particularly interested in candidates with interest in vascular biology and immunology, but qualified Investigators with other areas of interest are encouraged to apply. Faculty appointment will be at the ASSISTANT/ASSOCIATE PROFESSOR level based on qualifications. Send written inquiries with current curriculum vitae to: **Thomas M. Coffman, M.D., Division of Nephrology, Box 3014, Duke University Medical Center, Durham, NC 27710.** Minorities and women are encouraged to apply. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

University of Southern Maine

ASSISTANT PROFESSOR HUMAN ANATOMY AND PHYSIOLOGY

Full-time, two-year, nine-month appointment at the Assistant Professor level. Teaching duties will consist of a two-semester sequence, lecture, and laboratory in human anatomy and physiology for allied health students. A Ph.D. in the biological sciences must be completed by July 1, 1998. Send curriculum vitae, three letters of recommendation, and statement of teaching philosophy postmarked by April 24, 1998, to: **Dr. Theresa Theodore, Chair, Anatomy and Physiology Search Committee, Department of Biological Sciences, University of Southern Maine, P.O. Box 9300, Portland, ME 04104-9300.** *University of Southern Maine is an Equal Employment Opportunity/Affirmative Action Employer committed to diversity, quality, and reasonable accommodation.*

ASSISTANT/ASSOCIATE PROFESSOR PLANT PATHOLOGY

Applications are invited for a position focusing on molecular plant virology. The successful candidate will be allowed broad latitude in determining particular research directions. Postdoctoral experience is desirable. The position may be filled at the Associate Professor level with an individual who has demonstrated appropriate professional accomplishments. The appointee will be expected to contribute to the instructional program in the department as well as to provide expertise to other departmental efforts. Applicants should send curriculum vitae; transcripts; sample publications; any other evidence of professional accomplishments considered relevant; and the names, addresses (including e-mail, if known), and telephone numbers of at least three professional references (no letters at this time) to: **Dr. David A. Smith, Department of Plant Pathology, S-305 Agricultural Science Building-North, University of Kentucky, Lexington, KY 40546-0091. Telephone: 606-257-3901; FAX: 606-323-1961; e-mail: dasmith@ca.uky.edu.** Applications will be accepted until May 29, 1998, or until a suitably qualified candidate is found. E-mail applications will not be reviewed. *The University of Kentucky is an Equal Opportunity Employer.*

POSITIONS OPEN

UNIVERSITY OF MICHIGAN MEDICAL CENTER

The Department of Surgery, Section of Urology seeks M.D.-Ph.D. candidates for a primary research-track **FACULTY POSITION.** Applicants should have relevant postdoctoral experience in cell biology and tumor biology. The selected candidate should have considerable knowledge of urogenital tract development and disease, especially as it relates to urologic cancer and BPH. Candidate must have documented ability to conceive and perform original research, the ability to obtain grant funding, and an interest in an academic career. Appointment level will be determined by applicant's credentials. Send curriculum vitae to:

**James E. Montic, M.D.
Urology Section
University of Michigan Medical Center
1500 East Medical Center Drive
Ann Arbor, MI 48109-0330**

The University of Michigan is a nondiscriminatory Affirmative Action Employer and strongly encourages minorities and females to apply.

TENURE-TRACK POSITION THE HEBREW UNIVERSITY SCHOOL OF PHARMACY Jerusalem, Israel

A tenure-track position for a Medicinal Pharmaceutical or Bioorganic/Biophysical/Natural Product Chemist is available in the Department of Pharmaceutical Chemistry in the School of Pharmacy, Hebrew University of Jerusalem for the academic year 1998-99. A Ph.D. degree and postdoctoral training is required. Candidates are expected to conduct independent research and take part in teaching organic medicinal chemistry and bioorganic courses to undergraduate and graduate pharmacy students. Candidates are requested to send their curriculum vitae, list of publications, three to five selected reprints, a brief outline of research plans, and the names and addresses of three references no later than May 30, 1998.

Candidates should apply to: **The Dean's Office, The Faculty of Medicine, The Hebrew University of Jerusalem, P.O. Box 12272, Jerusalem 91120 Israel. Website: <http://www.md.huji.ac.il>.**

American Heart
AssociationSM



Staff Scientist

The American Heart Association National Center, located in Dallas, TX, has a great opportunity for a Staff Scientist to work in partnership with the nation's leading CV & Stroke scientists in activities in the development and application of science policy, supporting the reduction of death and disability from heart disease and stroke.

We are seeking an MD, Ph.D. or equivalent who has familiarity with the broad subject of cardiovascular medicine. Particular experience or background might include Biostatistics, Clinical Epidemiology, Nutrition and Lipidology Science, Medical Systems and Outcomes Research or knowledge of managed care systems, clinical physiology or clinical management of cardiovascular disease. Familiarity with research methodologies and interpretation of data is a must, as are strong computer skills.

We offer a comprehensive benefits package, including relocation. Salary is commensurate with experience. Please submit CV by April 8th to: **American Heart Association, HR Dept.-SS, 7272 Greenville Ave., Dallas, Texas 75231; fax: (214) 706-1191 or email: aharesume@amhrt.org. Visit our homepage at www.amhrt.org. EOE, M/F/V/D**



RESEARCH POSITIONS

CENTRE DE RECHERCHE
L'HÔTEL-DIEU DE QUÉBEC

for new independent
investigators at the



CENTRE HOSPITALIER
UNIVERSITAIRE DE QUÉBEC

CENTRE DE RECHERCHE EN CANCÉROLOGIE DE L'UNIVERSITÉ LAVAL



Several staff positions are available in basic and applied
CANCER RESEARCH, with emphasis in the areas of:

- Transcription and Signal Transduction
- Development and Differentiation
- Cancer Gene Therapy

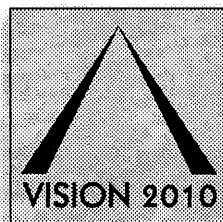
Salary support and start-up funds are available immediately for three positions, one of which is in cancer gene therapy. Further positions will require competitive application for scholarship and operating funds from external sources in 1998 and 1999.

L'Hôtel-Dieu de Québec is a Tertiary Reference Centre for Clinical Oncology and Radiotherapy and currently has 22 basic research groups headed by Faculty members of Laval University Medical School. It provides a modern, dynamic, and multidisciplinary environment for collaborative clinical, fundamental, evaluative and industrial research. The Research Centre of L'Hôtel-Dieu is supported by a Core Grant from the Fonds de la Recherche en Santé du Québec, and it operates in a new 100 000 ft² facility adjacent to L'Hôtel-Dieu in the historic centre of the city of Québec.

Applications including a curriculum vitae, names of references, and a summary of research interests should be sent to:

Dr. Luc Bélanger, Director, Centre de recherche
11, côte du Palais, Québec (Québec)
Canada G1R 2J6
<http://www.crhq.ulaval.ca>

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of our company.

Our corporate
culture inspires and
commits all
to do their best.



**Pharmaceutical
Division**

Biological Products

QA SYSTEMS ANALYST

■ Bayer Corporation is a \$32 billion international diversified organization and is one of the most broadly-based healthcare companies in the U.S. Our Clayton facility is the largest of its kind in the world and is primarily involved in the manufacture of **Biological Products**.

■ You will conceive, design, develop and implement applications for QA related data collection, transfer, storage, retrieval, analysis and reporting. Responsibilities include development and administration on the PENelson LIMS system. You will be capable of independently ensuring the LIMS application, Oracle database and operating systems are available 24 hours/day. Activities will include the implementation, use and user training of advanced information management tools for QA data trending and analysis, as well as the formulation, presentation and preparation of system documentation.

■ To qualify, you must be a team player with a BS degree with scientific emphasis or equivalent and 10 years related experience, with at least 6 years in application development for scientific data systems. Familiarity with GLP and GMP requirements is required, along with experience in data mining techniques and statistical evaluation. Proven experience with PENelson LIMS, VMS/Unix, Oracle and SAS is required. PowerBuilder environment and development experience desired, as is Developer, Designer and Discover 2000 experience.

■ For immediate consideration, please forward your resume (indicating response code 98-33) including salary history to: **KC/Human Resources Administrator, Bayer Corporation, Pharmaceutical Division, P.O. Box 507, Clayton, NC 27520**. No agencies or phone calls please. For more information on Bayer, search: <http://www.careermosaic.com/cm/bayer/>

■ An Equal Opportunity Employer M/F/D/V. Bayer Corp. is committed to enhancing and maintaining cultural diversity within our work environment.

POSITIONS OPEN

DEVELOPMENTAL BIOLOGY UNIVERSITY OF VIRGINIA

The Department of Cell Biology at the University of Virginia Health Sciences Center invites applications for a **SENIOR-LEVEL TENURE-TRACK** position. We seek an outstanding scientist who is using contemporary approaches to address fundamental problems in developmental biology. Preference will be given to Investigators whose research interests are directed toward molecular genetic and/or cellular analyses of developmental mechanisms. It is anticipated that the candidate's research program will complement existing research interests within the department, which include cell adhesion and motility, cell-cell and cell-matrix interactions, reproductive biology, the cell cycle, and membrane biology.

Candidates are expected to possess an exceptional record of research accomplishment based on publications, national recognition, and sustained extramural grant support. The position also involves participation in medical and graduate teaching programs. The Department of Cell Biology represents a productive, well-equipped, and well-funded group of Investigators who seek a cooperative scientific leader who will further enhance our research potential.

Interested applicants should submit a curriculum vitae, statement of research interests and accomplishments, and the names of three references to: **Dr. Charles J. Flickinger, Chair, Department of Cell Biology, University of Virginia, Box 439 Health Sciences Center, Charlottesville, VA 22908.** *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

STAFF POSITIONS IN VIROLOGY LERNER RESEARCH INSTITUTE THE CLEVELAND CLINIC FOUNDATION

The newly established Department of Virology invites applications for both junior and senior-level staff positions (equivalent to the ranks of **ASSISTANT, ASSOCIATE, or FULL PROFESSOR**). We seek outstanding candidates (Ph.D. and/or M.D.) with the ability to establish vigorous research programs in molecular aspects of human pathogens such as HIV, hepatitis A and C, cytomegaloviruses, respiratory viruses, and other important pathogens. Collaborations with nationally acclaimed clinical departments in the Foundation are also encouraged. Highly competitive compensation package with generous start-up funds and state-of-the-art research facility will be provided to successful candidates. The Lerner Research Institute, which has a long-standing commitment to excellence in basic research, comprises over 100 independent Investigators and 200 Postdoctoral Fellows in eight departments.

Please send curriculum vitae, a brief description of the research program, and the names and addresses of three references to:

**Dr. Amiya K. Banerjee, Chairman
Department of Virology—NC20
Lerner Research Institute
The Cleveland Clinic Foundation
Cleveland, OH 44195**

The Cleveland Clinic Foundation is an Equal Opportunity Employer.

FACULTY POSITIONS NEUROSCIENCE AND ANATOMY

The Department of Neuroscience and Anatomy of The Pennsylvania State University has tenure-track **ASSISTANT PROFESSOR** positions for current and forthcoming academic years. Qualified individuals should have a doctorate degree, postdoctoral training, and a research program in: (1) molecular and cellular neuroscience (with a focus on human neurological disorders or neural development) or (2) systems neuroscience (with a focus on computational and physiological analysis of the motor, sensory, or limbic systems). More senior persons applying for **ASSOCIATE PROFESSOR** or **FULL PROFESSOR** positions may also be considered. Appointed faculty must maintain their research program with external funding and participate in departmental teaching. Interested persons should send a curriculum vitae, a statement of research interests, and names of three referees to: **Search Committee, Department of Neuroscience and Anatomy, The Penn State University College of Medicine, P.O. Box 850, 500 University Drive (Mail Stop H109), Hershey, PA 17033.** Deadline for applications is May 1, 1998. *The Pennsylvania State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

POSITIONS OPEN

ASSISTANT PROFESSORS DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCES Division of Physiology Division of Toxicological Sciences The Johns Hopkins University

The Department of Environmental Health Sciences has openings for two tenure-track Assistant Professors. Applicants should have interests and accomplishments in the areas of physiology or toxicology. Successful candidates will be expected to establish independent research programs focused on molecular mechanisms of cellular injury or pulmonary pathophysiology and which are related to an important human health problem. The research interests of the faculty in the two divisions include: chemical carcinogenesis, inflammatory processes, oxidative stress, DNA damage and repair, xenobiotic metabolism, mechanisms of signal transduction, chemoprevention, pulmonary smooth muscle regulation, health effects of air pollutants, determinants of host susceptibility, mechanisms of neuronal injury and molecular biomarkers. The successful applicants will have research interests and employ experimental approaches that complement one or more of these areas. The new Assistant Professors will also be expected to participate with the other faculty in Divisional teaching programs and mentoring of pre- and postdoctoral students. Interested candidates should send a curriculum vitae, a succinct statement of their research accomplishments and future plans for developing an independent research program, along with the names of three individuals who can be contacted for references to:

**Physiology/Toxicology Search Committee
c/o Kay Castleberry, Search Coordinator
Department of Environmental Health Sciences
Room 1102
The Johns Hopkins School of Hygiene and
Public Health
615 North Wolfe Street
Baltimore, MD 21205**

Equal Opportunity/Affirmative Action Employer; women and minorities are encouraged to apply.

FACULTY POSITIONS IN VETERINARY PREVENTIVE MEDICINE AT IOWA STATE UNIVERSITY

The Department of Microbiology, Immunology, and Preventive Medicine, College of Veterinary Medicine invites applications for two tenure-track, 12-month appointments at the **ASSISTANT/ASSOCIATE PROFESSOR** rank available August 1998. Successful applicants (Ph.D. and/or D.V.M. degrees with appropriate background and training) will be expected to establish vigorous, independently funded research programs in the general areas of epidemiology, zoonotic diseases, environmental health, or food safety. We desire to fill one position with an Analytical Epidemiologist. Participation in the graduate and professional curricula is also expected. We offer a competitive start-up package, modern research space, and opportunities to collaborate with USDA scientists at the National Animal Disease Center, the National Veterinary Services Laboratory, and the multi-university Food Safety Research Consortium. Applications will be accepted until June 1998 or until the positions are filled.

Candidates should send a letter of intent stating research interests, curriculum vitae, and the names of three professional references to: **K. B. Platt, Chair, Search Committee, Department of Microbiology, Immunology, and Preventive Medicine, College of Veterinary Medicine, Iowa State University, Ames, IA 50011.** *Iowa State University is an Equal Opportunity/Affirmative Action Employer.*

TENURE-TRACK POSITION MOLECULAR MICROBIOLOGY

The Bruce Rappaport Faculty of Medicine at the Technion in Haifa, Israel, invites applications (Ph.D. and/or M.D.) at all academic levels for a tenure-track position in the Department of Molecular Microbiology. Candidates are expected to establish a strong, extramurally funded research program and to participate in teaching medical and graduate students basic and advanced courses. Teaching language in Israel is Hebrew. Interested applicants should submit curriculum vitae, list of publications, and a statement of research and teaching philosophy, and have three letters of reference forwarded by May 31, 1998, to: **Prof. Peretz Lavie, Dean, Faculty of Medicine, Technion—Israel Institute of Technology, P.O. Box 9649, Haifa 31096 Israel.**

POSITIONS OPEN

ASSISTANT PROFESSOR IN PLANT PATHOLOGY Molecular Genetics of Plant Disease Resistance University of Florida, Gainesville, Florida

Applications are invited for an 12-month tenure-track position with 80 percent research and 20 percent teaching responsibility. The appointee is expected to establish an independent research program in molecular mechanisms of plant disease resistance, including identification, isolation, characterization, and manipulation of disease-resistance genes. The ultimate goal is to contribute to the understanding of mechanisms of resistance and to transfer such genes to crop plants of importance to Florida. Ph.D. in plant pathology, plant molecular biology, or related fields is required with a strong commitment to work on molecular genetic mechanisms of plant resistance to pathogens. He/she will be expected to pursue competitive research grant funds. Applicants should submit a statement of research and teaching goals and interests, a curriculum vitae, graduate and undergraduate transcripts, list of publications, and three letters of reference, no later than May 15, 1998.

Starting date: July 1, 1998, or as negotiated.
Send applications to:

**Dr. Prem S. Chourey
Plant Pathology Department
University of Florida
Gainesville, FL 32611-0680
Telephone: 352-392-3631
FAX: 352-392-6532
Website: <http://plantpath.ifas.ufl.edu>
E-mail: psch@gnv.ifas.ufl.edu**

The University of Florida is an Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR OF ANATOMY AND CELL BIOLOGY

Two, full-time, tenure-track, entry-level positions in the newly renovated Department of Anatomy and Cell Biology are available. Candidates must have a Ph.D., M.D., or equivalent; postdoctoral experience; and an active research program with a high potential for attracting external support. Although individuals in a variety of research areas will be considered, preference will be given to scientists engaged in signal transduction, growth factors, cell cycle, and molecular neurobiology research. Individuals will be expected to participate in a team-taught course for professional students and assist in developing a graduate course in their area of expertise.

Visit our website: <http://www.uiowa.edu/~anatomy/>. Interested individuals should send curriculum vitae, bibliography, a brief statement of research and teaching experience, plus names of three references to: **Dr. Mary J. C. Hendrix, Head, Department of Anatomy and Cell Biology, College of Medicine, The University of Iowa, Iowa City, IA 52242.**

The University of Iowa is an Equal Employment Opportunity and Affirmative Action Employer. Women and minorities are encouraged to apply.

PLANT/MOLECULAR BIOLOGIST. The Biology Department of Westfield State College invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. Applicants should have a Ph.D. with experience teaching at the college level preferred. The primary responsibility of the successful candidate will be the teaching, but research is encouraged. Teaching responsibilities include introductory-level biology courses and an intermediate-level plant structure and function course. Graduate courses in a newly formed M.Ed. in biology program are also possible. Review of applications will begin immediately, and will continue until the position is filled. Applicants should send curriculum vitae, a statement of teaching and research interests, and three references to: **Dr. James Phillips, Chair, Biology Department, Westfield State College, Westfield, MA 01086-1630.** *An Affirmative Action/Equal Opportunity Employer. Women, persons of color, and persons with disability are encouraged to apply.*

Division of Cardiology seeks a **PHYSIOLOGIST** for a faculty position at the **INSTRUCTOR** or **ASSISTANT PROFESSOR** level to work on myocardial ischemia. The successful candidate will have demonstrated expertise in integrated cardiac physiology (whole animal physiology). The focus of the research program will be on myocardial ischemic preconditioning, stunning, and hibernation. Send curriculum vitae and statement of research interest to: **Roberto Bolli, M.D., Division of Cardiology, University of Louisville, Louisville, KY 40292.** PCN 09275. *Equal Employment Opportunity/Affirmative Action.*

American Heart
AssociationSM



Staff Scientist

The American Heart Association National Center, located in Dallas, TX, has a great opportunity for a Staff Scientist to work in partnership with the nation's leading CV & Stroke scientists in activities in the development and application of science policy, supporting the reduction of death and disability from heart disease and stroke.

We are seeking an MD, Ph.D. or equivalent who has familiarity with the broad subject of cardiovascular medicine. Particular experience or background might include Biostatistics, Clinical Epidemiology, Nutrition and Lipidology Science, Medical Systems and Outcomes Research or knowledge of managed care systems, clinical physiology or clinical management of cardiovascular disease. Familiarity with research methodologies and interpretation of data is a must, as are strong computer skills.

We offer a comprehensive benefits package, including relocation. Salary is commensurate with experience. Please submit CV by April 8th to: **American Heart Association, HR Dept.-SS, 7272 Greenville Ave., Dallas, Texas 75231; fax: (214) 706-1191 or email: aharesume@amhrt.org. Visit our homepage at www.amhrt.org. EOE, M/F/V/D**



RESEARCH POSITIONS

for new independent
investigators at the



CENTRE DE RECHERCHE EN CANCÉROLOGIE
DE L'UNIVERSITÉ LAVAL
UNIVERSITÉ
LAVAL

Several staff positions are available in basic and applied
CANCER RESEARCH, with emphasis in the areas of:

- Transcription and Signal Transduction
- Development and Differentiation
- Cancer Gene Therapy

Salary support and start-up funds are available immediately for three positions, one of which is in cancer gene therapy. Further positions will require competitive application for scholarship and operating funds from external sources in 1998 and 1999.

L'Hôtel-Dieu de Québec is a Tertiary Reference Centre for Clinical Oncology and Radiotherapy and currently has 22 basic research groups headed by Faculty members of Laval University Medical School. It provides a modern, dynamic, and multidisciplinary environment for collaborative clinical, fundamental, evaluative and industrial research. The Research Centre of L'Hôtel-Dieu is supported by a Core Grant from the Fonds de la Recherche en Santé du Québec, and it operates in a new 100 000 ft² facility adjacent to L'Hôtel-Dieu in the historic centre of the city of Québec.

Applications including a curriculum vitae, names of references, and a summary of research interests should be sent to:

Dr. Luc Bélanger, Director, Centre de recherche
11, côte du Palais, Québec (Québec)
Canada G1R 2J6
<http://www.crdq.ulaval.ca>

THE BAYER FACTS:



Bayer:

A premier
healthcare
company for
the 21st century.

Our business is
to significantly
improve health
worldwide.

People are the heart
of our company.

Our corporate
culture inspires and
commits all
to do their best.



Pharmaceutical
Division

Biological Products

QA SYSTEMS ANALYST

■ Bayer Corporation is a \$32 billion international diversified organization and is one of the most broadly-based healthcare companies in the U.S. Our Clayton facility is the largest of its kind in the world and is primarily involved in the manufacture of **Biological Products**.

■ You will conceive, design, develop and implement applications for QA related data collection, transfer, storage, retrieval, analysis and reporting. Responsibilities include development and administration on the PENelson LIMS system. You will be capable of independently ensuring the LIMS application, Oracle database and operating systems are available 24 hours/day. Activities will include the implementation, use and user training of advanced information management tools for QA data trending and analysis, as well as the formulation, presentation and preparation of system documentation.

■ To qualify, you must be a team player with a BS degree with scientific emphasis or equivalent and 10 years related experience, with at least 6 years in application development for scientific data systems. Familiarity with GLP and GMP requirements is required, along with experience in data mining techniques and statistical evaluation. Proven experience with PENelson LIMS, VMS/Unix, Oracle and SAS is required. PowerBuilder environment and development experience desired, as is Developer, Designer and Discover 2000 experience.

■ For immediate consideration, please forward your resume (indicating response code 98-33) including salary history to: **KC/Human Resources Administrator, Bayer Corporation, Pharmaceutical Division, P.O. Box 507, Clayton, NC 27520**. No agencies or phone calls please. For more information on Bayer, search: <http://www.careermosaic.com/cm/bayer/>

■ An Equal Opportunity Employer M/F/D/V. Bayer Corp. is committed to enhancing and maintaining cultural diversity within our work environment.

POSITIONS OPEN

DIRECTOR OF MOLECULAR GENETICS

The University of Nebraska Medical Center invites applications and nominations for a new position, Director of Molecular Genetics. In addition to carrying out a vigorous program of independent and extramurally funded research, the Director will be expected to coordinate research in molecular genetics across the campus. The research enterprise of the University of Nebraska Medical Center is in a strong growth mode, and offers exciting opportunities for an individual with a broad perspective in molecular genetics. Substantial resources have been made available for this position including new laboratories, an attractive start-up package, and funds for recruitment of new faculty members.

Applicants must have an earned doctorate, a history of academic achievement that is commensurate with an appointment as Associate Professor or Professor, a substantial record of extramural research funding, and administrative experience that would be comparable with that expected of a candidate for Department Chairperson or higher. Résumés and inquiries should be directed to:

Thomas H. Rosenquist, Chairman
Molecular Genetics Search Committee
Office of the Chancellor
University of Nebraska Medical Center
600 South 42nd Street
Omaha, NE 68198-6605

The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer. Women, members of underrepresented minority groups, and persons with disability are encouraged to apply.

ASSOCIATE VICE PRESIDENT FOR RESEARCH

George Washington University Medical Center
Washington, D.C.

George Washington University Medical Center (GWUMC) is seeking an energetic individual to assume the overall responsibility for the administration and development of research with the objective of doubling the volume of funded research over the next five years. The position will report directly to the Vice President for Health Affairs and be on a peer level with the Deans of the School of Medicine and Health Sciences and the School of Public Health and Health Services.

The successful candidate will possess an M.D. and/or Ph.D. with academic credentials that will qualify for a Professorial appointment; have a successful track record as a funded researcher and research administrator; and possess the ability to work collaboratively with the Deans, Academic Chairs, and Research Scientists.

Candidates should submit their curriculum vitae in confidence to:

Harry Wollman, M.D., Principal
Alexander, Wollman & Stark
12th Floor, Packard Building
S.E. Corner, 15th and Chestnut Streets
Philadelphia, PA 19102-2678

Review of applications will begin on April 15, 1998, and continue until the position is filled. *The George Washington University is an Equal Opportunity/Affirmative Action Employer.*

UNIVERSITY OF FLORIDA

The Division of Hematology/Oncology in the College of Medicine, Department of Medicine seeks to fill the **PRICE EMINENT SCHOLAR CHAIR OF BASIC SCIENCE**. We are seeking to fill this tenure-track position with a scientist, M.D., Ph.D., or M.D.-Ph.D., with experience as a Cell Biologist to conduct basic research in one or more areas of hematopoiesis, cytokine regulation and hematopoietic progenitor cells, interaction of stem cells and bone marrow stroma, differentiation between normal and malignant hematopoietic stem cells, purification of hematopoietic stem cells, purification of hematopoietic progenitor cells of different lineages, and the characterization of primitive hematopoietic progenitors of fetal origin, adult bone marrow, and peripheral blood. Salary and fringes negotiable and commensurate with experience. Recruiting deadline: June 15, 1998. Anticipated starting date September 1, 1998. Applicants should send a letter of interest and a copy of their curriculum vitae to: **John R. Wingard, M.D., Chairman, Price Eminent Scholar, Chairman Search Committee, Professor of Medicine, Director Bone Marrow Transplant Program, University of Florida, Box 100277, JHMHC, Gainesville, FL 32610-0277. An Equal Employment/Affirmative Action Employer.**

POSITIONS OPEN

ASSOCIATE PROFESSOR OF BIOMETRICS

The University of New Hampshire, College of Life Sciences and Agriculture, announces an academic year, tenure-track position. Responsibilities include teaching, research statistical support, and administration of the College computer network. Initial teaching responsibilities will be in one or more of the following areas: introductory or advanced biometrics, approach to research, or genetics. Applicant must hold a Ph.D. and five to six years of experience in a University setting, and publications and grant writing experience. Extensive experience in research design and statistical consulting is required, and the successful candidate will be expected to provide support in this area to faculty, staff, and students involved in agricultural, biological, and ecological research. Experience with installation and administration of Novell Netware 4.x is required and the position may involve oversight and continued planning, development, and administration of the College computer network. In addition, the successful applicant will be expected to develop a research program in the area of population genetics, and must have a demonstrated ability to obtain external research funds. Application deadline is May 1, 1998. Submit a curriculum vitae, graduate school transcripts, a description of current and future teaching and research interests, and three letters of recommendation to: **Biometrics Search Committee, Dean's Office, College of Life Sciences and Agriculture, Taylor Hall, University of New Hampshire, Durham, NH 03824.** Applicants are advised that there is an internal candidate for this position.

UNH is an Affirmative Action/Equal Employment Opportunity Employer. Women and minority candidates are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.

SENIOR RESEARCH SCIENTIST STANFORD UNIVERSITY SCHOOL OF MEDICINE Stanford, California

Position immediately available for a Ph.D. with five to ten years of postdoctoral experience in all of the following areas: flow cytometry (advanced operating ability), molecular biology, tissue culture, and investigation of the molecular pharmacology of immune cells. The applicant must have a strong publication record, excellent speaking and writing skills, successful record of grant and/or contract approvals, and experience managing research teams. The position will entail managing a research team investigating the molecular mechanisms of action of new immunosuppressive molecules.

Salary: \$65,000 to \$80,000 per year depending on experience.

Send curriculum vitae, list of publications, list of grant/contract awards, and six letters of recommendation to:

Search Committee c/o Randall E. Morris, M.D.
Department of Cardiothoracic Surgery
Stanford University School of Medicine
Stanford, CA 94305-5247
Telephone: 650-723-6016
FAX: 650-725-3846

Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF PHYSIOLOGY/NEUROSCIENCE

Applications are invited for a tenure-track Assistant Professor position. The candidate must have a Ph.D. with at least two years of postdoctoral training, and will be expected to develop an independent and extramurally funded research program in neuroscience focusing on the area of learning, memory, and behavior. The candidate will also be expected to teach neuroscience/neurophysiology in undergraduate and medical courses. Abundant collaborative opportunities for neuroscience research are available on campus. Applicants should send by May 1, 1998, a curriculum vitae, statement of research interests and teaching experience, and the names of three references to: **Dr. Darrell W. Brann, Department of Physiology and Endocrinology, Medical College of Georgia, Augusta, GA 30912-3000. Medical College of Georgia is an Equal Opportunity/Affirmative Action Employer.**

RESEARCH SCIENTIST

Key research position focused around a proprietary stem cell amplification system. The position requires a Ph.D. with several years of experience preferred. Candidate should have a strong background in stem cell biology, particularly hematopoietic and/or embryonic. Send curriculum vitae to: **t. Breeders, Inc., One Innovation Drive, Worcester, MA 01605. FAX: 508-831-3521.**

POSITIONS OPEN

ECOTOXICOLOGIST

Chesapeake Biological Laboratory at the University of Maryland Center for Environmental Science (UMCES), announces a position for an Ecotoxicologist at the **ASSISTANT PROFESSOR** level. We seek an individual with training in aquatic toxicology and ecology who uses experimental or empirical approaches to understand mechanistic responses as they relate to population/community-level processes. This individual will be part of our programs in aquatic toxicology and ecology and is expected to teach graduate students, participate in the Center's advisory service functions, and interact with ongoing research programs in environmental chemistry and fisheries. Priority given to individuals investigating the effects of sublethal stresses and their relationship to reproduction, growth, survival, and population/community-level responses of aquatic organisms. Applicants should submit a statement of research expertise and accomplishments, curriculum vitae, publications, and names of four references. Appropriate Ph.D. required. Applications received before May 1, 1998, will be given priority consideration; however, the search will remain open until a suitable candidate is found. Please submit inquiries and applications to:

Chair, Ecotoxicologist Search Committee
Chesapeake Biological Laboratory
University of Maryland
Center for Environmental Science
P.O. Box 38
Solomons, MD 20688

Affirmative Action/Equal Opportunity Employer.

MOLECULAR GENETICIST/ANIMAL GENOMICS UNIVERSITY OF ILLINOIS Department of Animal Sciences

Applications are invited for a tenure-track **ASSISTANT PROFESSOR** or tenured **ASSOCIATE PROFESSOR** (30 percent teaching, 70 percent research) in molecular genetics/animal genomics. Qualifications include a Ph.D. in molecular genetics, animal sciences, or a related biological science, with an interest in swine genetics. The candidate will be expected to develop a strong, externally funded research program and to train both M.S. and Ph.D. students and to become an effective teacher and advisor. Candidates should submit a curriculum vitae, academic transcripts, a description of their research experience, and reasons for interest in the position. They should also have three letters of reference sent to: **Dr. Robert A. Easter, Head, Department of Animal Sciences, University of Illinois at Urbana-Champaign, 1207 West Gregory Drive, Urbana, IL 61801 USA. Telephone: 217-333-3462; FAX: 217-244-2871.** Applications should be received by June 15, 1998, to ensure full consideration.

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

HUMAN ANATOMY INSTRUCTOR

A full-time, non-tenure-track position is available at the University of Alabama at Birmingham. Duties include teaching human anatomy, human physiology, and pathophysiology, and supervision of associated laboratories. Candidates should have experience in human anatomy and preferably a doctorate, but applicants with a Master's and appropriate training and experience will be considered. Review of applications will begin 1 May 1998 and continue until position is filled. Desired starting date is 1 September 1998. Applicants should submit a curriculum vitae, names of three references, and a brief statement of teaching philosophy. Please forward application materials to: **Dr. Daniel D. Jones, Chair, Department of Biology, University of Alabama at Birmingham, 1300 University Boulevard, Birmingham, AL 35294-1170. The University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.**

Department of Biostatistics and Medical Informatics seeks tenure-track **ASSISTANT PROFESSOR** in new medical informatics program, which serves as focal point between computer science, software engineering, and health science researchers. Ph.D. in computer science, medical informatics, or engineering with computer science focus; expertise in computational biology, database systems, artificial intelligence, or related fields. Reply to: **David DeMets, 600 Highland Avenue, University of Wisconsin, K6/446, Madison, WI 53792. E-mail: demets@biostat.wisc.edu. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.**

**MEDICAL UNIVERSITY OF
SOUTH CAROLINA
CHAIRPERSON
DEPARTMENT OF PATHOLOGY AND
LABORATORY MEDICINE**

The College of Medicine at the Medical University of South Carolina invites applications and nominations for the position of Professor and Chair of the Department of Pathology and Laboratory Medicine. This position involves academic and administrative leadership of Departmental programs in laboratory medicine, anatomic pathology, undergraduate and graduate education, and research. Candidates must be Board-certified in pathology. They must have the capacity to attract and sustain extramural funding and have demonstrated ability to manage a large, complex, and multifaceted academic department.

Applications and nominations may be sent to: **Mark R. Green, M.D., Chair, Pathology and Laboratory Medicine Search Committee, Director, Hollings Cancer Center, Office of the Dean, College of Medicine, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425.**

Applicants submitting a letter of interest should include a comprehensive curriculum vitae and the names and addresses of three references. The deadline for receipt of applications is June 15, 1998.

MUSC is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

Molecular Immunologist Research Fellowship

Department of Molecular Medicine

Three Year Term

Vacancy 954SNC

A position is available immediately, for a postdoctoral scientist to work on a project investigating the use of bacterial superantigens as delivery vehicles for peptide based vaccines. Experience in immunology, molecular biology and protein biochemistry is required.

For further information regarding the position, contact Dr John Fraser, Department of Molecular Medicine, The University of Auckland, phone 64-9-373 7599 ext 6036, email: jd.fraser@auckland.ac.nz

Two copies of applications in the form of a detailed CV, including the contact details for two or more referees and their fax numbers close at the Human Resources Office, School of Medicine & Health Science, The University of Auckland, Private Bag 92019, Auckland, New Zealand, on **20 April 1998.**

Please quote Vacancy 954SNC in all correspondence.

ASSISTANT REGISTRAR, ACADEMIC APPOINTMENTS



New Zealand

The University has an equal opportunities policy and welcomes applications from all qualified persons

American College of Rheumatology

Antigen Presentation: Basic Biology and Applications to Autoimmune Disease

This ACR Basic Research Conference will be held on November 7-8, 1998, at the San Diego Marriott Hotel and Marina in San Diego, California. Conference sessions include:

Antigen Processing and Presentation

Peter Cresswell, Yale University

Antonio Lanzavecchia, Basel Institute

Peter Jensen, Emory University

Structural Biology Of Antigen Presentation And T Cell Recognition

Don Wiley, Harvard University

Roy Mariuzza, Center for Advanced Research in Biology

CD1 Based Antigen Presentation And Recognition By The $\gamma\delta$ TCR

Michael Brenner, Harvard Medical School

Joseph Craft, Yale Medical School

Antigen Recognition Models Of Autoimmunity I

Gerald Nepom, Virginia Mason

Francesco Sinigaglia, Roche Milano Ricerche

Grete Sonderstrup, Stanford University

Antigen Recognition Models Of Autoimmunity II

Hugh McDevitt, Stanford University

John Kappler, National Jewish Medical and Research Center

Diane Mathis, IGBMC

This conference will immediately precede the ACR National Meeting in San Diego. For more information about the ACR Basic Research Conference or to receive a call for abstracts or registration information, please call the ACR office at (404) 633-3777.

EUROPEAN OPPORTUNITIES

POSTDOCTORAL RESEARCH ASSOCIATES le STUDIUM® Orleans

le STUDIUM® is an international institution based in the Loire Valley (Orleans, France) which supports innovative multidisciplinary projects through the sponsorship of postdoctoral associate positions. le STUDIUM® helps the candidates and their families in all the administrative and material problems they can encounter upon their arrival in France and during their stay in Orleans. Besides conducting their research, the selected candidates will be offered means of organizing an international workshop in the field related to the project.

Two positions are available for the following projects:

1 - Chemical synthesis and NMR studies of selectively isotopically labeled oligonucleotides. A nucleic acid chemist is sought to fulfil this position. He will be hosted in an organic chemical Institute, in close collaboration with a nearby biophysics Institute. Applications will be developed in the field retroviral RNA structures, dynamics, and interactions.

2 - Lab-on-a-chip developments for biochemical and cellular applications. The design of a micromachined biochip prototype is under investigation within a French network involving several Laboratories. A scientist having already experience in this field or a good cellular biologist experienced in various fluorescence applications and capable of collaborating with biophysicists, physicists, and engineers is sought to fulfil this position. The position will be hosted in a biophysics Institute in close collaboration with a Laboratory specialized in microsystems. A large scientific autonomy is required for this innovative project as well as the ability of overseeing several activities.

The positions are for one year with a possible extension to two years. The closing date for applications is April 15, 1998. The positions will be open from May 1st. *They are not open to French citizens.* Candidates should send their CV and list of publications together with the names and addresses of three referees to:

**le STUDIUM
Centre de Biophysique Moléculaire
Rue Charles-Sadron
45071 ORLEANS — Cedex 2, FRANCE
E-mail: le_STUDIUM@cns-orleans.fr
Fax 33 2 38 69 01 51**

POSITIONS OPEN

KRUG LIFE SCIENCES MICROSCOPIST

KRUG Life Sciences Biotechnology Program at the NASA Johnson Space Center invites applicants to fill the position, Microscopist.

This position is located in the Laboratory of Cellular and Molecular Biophysics at the National Institute of Child Health and Human Development, National Institutes of Health in Bethesda, Maryland. The NASA-NIH Center for Three-Dimensional Tissue Culture is seeking a Microscopist for research involving novel technologies for tissue culture, especially the imaging of cells within mounted living tissue blocks. The NASA-NIH Center provides NIH scientists with expertise in tissue culturing and cell imaging. The Microscopist will work closely with other members and users of the NASA-NIH Center, in a multidisciplinary environment which includes Cell Biologists, Immunologists, Virologists, Biophysicists, and Cell Physiologists. Applicants must possess a Master of Science or Ph.D. degree in cell biology, virology, microbiology, immunology, or a related background in modern optics, biophysics, biomedical engineering, image processing, and biology, as well as experience in and basic knowledge of laser-based imaging techniques, particularly scanning confocal microscopy, and standard imaging and related software. The NASA-NIH Center facilities are equipped with wide-field microscopes, scanning confocal microscopes (Leica and Moran), scanning and transmission electron microscopes, and is developing a multiphoton microscope.

This staff position is strongly affected by adherence to previously published cellular and histology procedures, and strict adherence to NIH/CDC and OSHA Lab Standards, and Biosafety Levels I/II and II/III biohazard containment procedures. This position will also require constant review of the literature, developing new technologies such as imaging mounted blocks of viable tissue, and analysis of unique data. Standard techniques must be combined with the newly developed methods, and critical interpretation of data is mandatory.

Please respond by indicating position: BIOCEL-9801

Qualified applicants should send a scannable résumé to: KRUG Life Sciences, 1290 Hercules Drive, Suite 120, Houston, TX 77058. FAX: 281-212-1211. *Equal Opportunity Employer/Minority/Females/Disabled/Veterans. Smoke-free workplace.*

RESEARCH ENTOMOLOGIST/MOLECULAR BIOLOGIST

The USDA, Agricultural Research Service (ARS), Grain Marketing and Production Research Center, Manhattan, Kansas, is accepting applications for the position of Research Entomologist/Molecular Biologist, GS-0401/0414-11/12. The incumbent is responsible for developing knowledge about the molecular biology of stored-product insect growth and development, molecular adaptations of insects to their natural environment and control practices, and new concepts of stored-product pest management. Incumbent is part of a team working on integrated management of stored-product insect pests. The research approach will involve (1) identifying biochemical and genetic elements in insects that underlie important exploitable biological processes or serve as useful markers in basic biological investigations or applied population management studies; (2) using genes and other DNA sequences as vectors or markers in population management or monitoring studies; and (3) contributing to the development of biological, genetic, or other control methods to supplement or replace traditional chemical insecticides. In addition to basic education requirements, applicants must demonstrate knowledge of and skills in molecular biology, knowledge of entomology, and knowledge of biochemistry, molecular genetics, or physiology. Salary is commensurate with experience (GS-11: \$38,593 to \$50,168 per year, GS-12: \$46,254 to \$60,135 per year). Ph.D. preferred. This position has specific education and experience requirements, and factors that must be addressed. For vacancy announcement and application forms, contact: Jimmie Nell Oliver, Telephone: 785-776-2737; or see announcement #ARS-D8W-130 on website: <http://www.ars.usda.gov/afm/hrd>. For position information contact: Dr. Alan K. Dowdy, Telephone: 785-776-2719; e-mail: dowdy@usgmrl.ksu.edu. Applications must be postmarked by June 6, 1998. *Must be a U.S. citizen. The USDA and its agencies are committed to Equal Employment Opportunity and applicable civil rights provisions; women and minorities are encouraged to apply.*

POSITIONS OPEN

The Laboratory of Molecular Pharmacology (LMP), Division of Basic Sciences, of the National Cancer Institute, National Institutes of Health, invites applications for a tenure-track position in molecular therapeutics. The applicant should have a potential to develop an independent basic research program in molecular and cellular biology, with emphasis on the development of novel strategies for the treatment of human cancer. Candidates with confirmed expertise with experimental systems dealing with specific oncogene or tumor suppressor gene alterations, studies on apoptosis, cell cycle regulation, DNA damage/repair, and signal transduction are encouraged to apply. This position is available for a Ph.D., M.D., or M.D.-Ph.D. with a salary commensurate with education and experience. A one- or two-page statement of research interests and goals should be submitted in addition to three letters of recommendation and a curriculum vitae to: Ms. Althea Jackson, Laboratory of Molecular Pharmacology, National Cancer Institute, NIH, Building 37, Room 5D02, 37 Convent Drive MSC 4255, Bethesda, MD 20892-4255. Telephone: 301-435-8232; FAX: 301-402-0752; e-mail: tiaj@box2.t.nih.gov. Applications must be received within one month of this announcement.

The National Cancer Institute is an Equal Opportunity Employer. Selection for this position will be based solely on merit, with no discrimination for nonment reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization.

FIELD DIRECTOR

Applied Research Associates, Inc. (ARA), an applied engineering and environmental research firm, is seeking a Field Director to lead and expand laboratory operations located at Tyndall Air Force Base, Florida.

The Field Director will provide leadership, vision, direction, and coordination of multidisciplinary research programs to develop the division into a national leader in the environmental sector. The Director is expected to develop a sound funding base from public and private industry.

The candidate should possess a Ph.D. in the chemical, biological, or engineering field with a sustained record of accomplishments in academia and/or industrial settings. Preference will be given to candidates demonstrating an excellent track record of research funding; strong planning and decision-making capabilities; excellent communication and interpersonal skills; and the ability to lead a multi-investigator research program.

Salary and benefits are commensurate with experience. Please send résumé to: Applied Research Associates, Inc., Attn: Environmental Research Group, P.O. Box 40128, Tyndall AFB 32403. E-mail: tsheley@ara.com.

ARA is an Equal Opportunity Employer and offers an excellent benefits program.

MEDICAL/SCIENTIFIC WRITER

A full-time position is available in the Lerner Research Institute and the Division of Health Affairs of The Cleveland Clinic Foundation for an individual with a strong biomedical research background, excellent literary skills, and a commitment to the communication of science. A doctoral degree in biological science with substantial experience in writing and editing publications is preferred. Responsibilities include preparing scientific articles for a lay audience, producing a quarterly newsletter for the Lerner Research Institute, assisting with the identification of manuscripts for potential commercial or patent opportunities, and assisting Investigators with the preparation and editing of proposals being sent to selected nonfederal funding sources. Salary and fringe benefits are highly competitive. A curriculum vitae and names and addresses of three references should be sent to:

George R. Stark, Ph.D.
Chairman, Lerner Research Institute
The Cleveland Clinic Foundation
9500 Euclid Avenue
Cleveland, OH 44195

The Cleveland Clinic Foundation is an Equal Opportunity Employer.

POSITIONS OPEN

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH SERVICE

RESEARCH ENTOMOLOGIST (GS-11/12). The USDA/ARS/Horticultural Crops Research Laboratory, Fresno, California, is seeking an innovative Research Scientist. The research will be conducted as part of a team effort directed toward the development of alternatives to chemicals currently used to control stored-product and quarantine pests. Specific objectives include conduct basic and applied research on insect biology, ecology, and behavior of stored-product and quarantine pests; identify sources of infestation and develop action thresholds; develop acceptable alternative control strategies using IPM principles; use collected data to identify sources of infestation and develop integrated treatment strategies based on action thresholds; and develop predictive models for control strategies together with newly available techniques such as geostatistics. The successful individual will be expected to develop an innovative, vigorous, independent research program, collaborate with other scientists, and publish research results in refereed journals and other media. A high level of knowledge of ecological principles, basic biology, integrated pest management, population dynamics, and modeling is required. A working knowledge of horticultural crops is desirable but not essential. *Must be a U.S. citizen.* A Ph.D. is highly desirable. Candidates with postdoctoral experience are preferred. Salary commensurate with experience (\$36,000 to \$43,000). Call: Dr. Patrick Vail, Telephone: 209-453-3000 for further information and an opening date for the position. *USDA/ARS is an Equal Opportunity Employer; women and minorities are encouraged to apply.*

HARRY AND ELSA JILER INTERNATIONAL VISITING SCIENTIST PROGRAM

The purpose of the Harry and Elsa Jiler International Visiting Scientist Program is to facilitate research in multiple myeloma and related diseases being conducted in the laboratories of American Cancer Society Clinical Research Professor Alan Solomon, M.D. at the University of Tennessee Medical Center. Particular emphasis is directed toward elucidating the chemical and biologic bases of pathologic light chain deposition and the development of novel diagnostic and therapeutic strategies for patients with these disorders. Applications are solicited from qualified Senior or Junior Investigators with demonstrated expertise in cell biology, particularly leukocyte physiology, or experimental pathology, who are citizens of a foreign country (not citizens, permanent residents, or noncitizen nationals of the United States). Appointments are for a one-year term, which in some cases can be extended for a second year. Send statement of research interest and background, curriculum vitae, and three letters of recommendation by 31 May 1998 to:

Alan Solomon, M.D.
Professor of Medicine and Head,
Human Immunology and Cancer Program
University of Tennessee Medical Center/Knoxville
1924 Alcoa Highway
Knoxville, TN 37920 USA

The University of Tennessee Medical Center/Knoxville is an Equal Opportunity/Affirmative Action/Title IX/Section 504/ADA Employer.

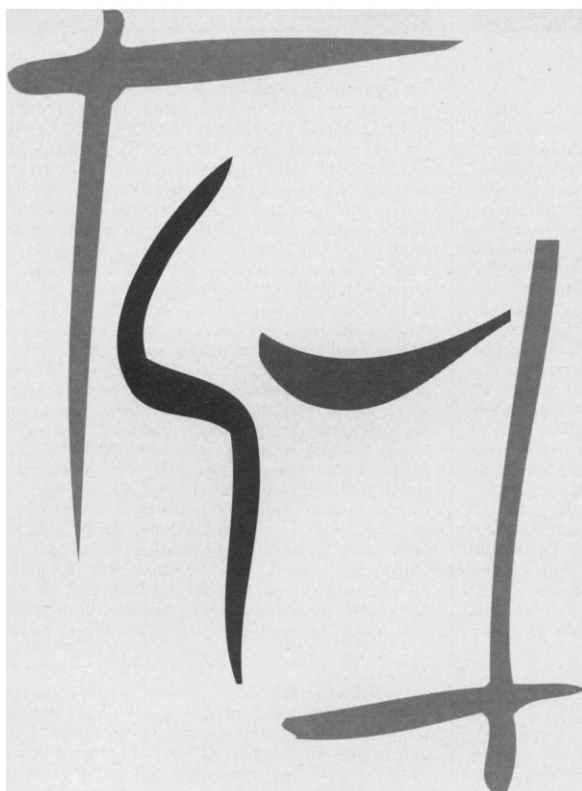
MICROSCOPIST CONFOCAL TECHNICIAN

The Wayne Hughes Institute, a biomedical research institute in St. Paul, Minnesota, is currently seeking a qualified, highly motivated individual to serve as Confocal Technician. Responsibilities will include processing samples for institute scientists, maintaining the one-photon and multiphoton microscopes, and with the Director of Imaging Facilities, determining future directions. Extensive experience with confocal microscopy and immunocytochemical staining and digital image handling is required. In addition, experience with CCD imaging and 35 mm photography is desirable. Candidates must have a B.S. or M.S. and a minimum of three years of work experience in the area of cell biology. Salary is commensurate with experience. This position is full time with overtime.

Send curriculum vitae, three references, and two to three letters of recommendation to:

The Wayne Hughes Institute
Attn: Human Resources
P.O. Box 8178
St. Paul, MN 55108
FAX: 612-697-0645

Equal Opportunity Employer.



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22nd INTERNATIONAL BREAST CANCER RESEARCH CONGRESS OF THE IABCR

ATHENS 24-27 SEPTEMBER 1998
ASTIR PALACE RESORT, VOULIAGMENI

INTERNATIONAL
ASSOCIATION FOR
BREAST CANCER RESEARCH

MAIN TOPICS

- Oncogenes and tumor suppressor genes associated with breast cancer
- Biology of breast cancer; progression from preneoplasia to metastasis
- Markers for breast cancer differentiation and malignancy
- Recent molecular biology findings in breast cancer
- Growth factors
- Hormones and breast cancer
- Immunology, immunotherapy and biological response modifiers in breast cancer
- Recent findings in epidemiology and control of breast cancer
- Current therapeutic management of breast cancer: surgery, radiotherapy, chemotherapy, hormonotherapy, genetic intervention
- Chemoprevention
- Predictive and prognostic factors in breast cancer
- New and future therapeutic approaches in breast cancer
- Is axillary lymph node dissection essential in all breast cancer patients?
- Pitfalls in diagnosis and treatment. Underdiagnosis and overdiagnosis for malignancy.
- DCIS: Natural history and management.

SECRETARIAT: ERASMUS CONFERENCE CENTRE, 227 KIFISSIAS AVE., ATHENS, TEL. ++/301/6125022,3 - FAX:++/301/6125021
CONGRESS INTERNET PAGE: <http://www.netit.gr/22ndInt.BreastCancerResearchCongress/>

EUROPEAN CONGRESS

POSITIONS OPEN

RESEARCH ENTOMOLOGIST Insect Pathologist GS-11/12.

USDA/ARS Grain Marketing and Production Research Center, Manhattan, Kansas, is seeking innovative Research Scientist to conduct basic and applied research in entomology. Research conducted as part of a team effort directed toward development of new alternatives to chemicals currently used to control stored-product pests. Assigned area of responsibility will specifically be to develop insect pathogens as microbial control agents of stored-product insect pests. Work closely with other Entomologists conducting research on other control methods to develop integrated management systems. Objectives include (1) isolate and identify potential insect pathogens for stored-product pests and conduct research to determine their feasibility and efficacy; (2) determine critical or limiting factors, both physical and biological, i.e., population level, storage conditions, etc., that influence the effectiveness of pathogens as microbial agents; (3) integrate potential microbial control agents with other pest control strategies that minimize the use of chemical pesticides. Develop innovative, vigorous independent research programs, collaborate with other scientists, and publish research results in refereed journals. Professional knowledge in basic and applied insect pathology and entomology required. General knowledge of integrated pest management, experimental design, and statistics desired. *Must be U.S. citizen. Ph.D. preferred. Salary commensurate with experience (\$38,000 to \$60,000).* For vacancy announcement and application forms, contact: **Jimmie Nell Oliver, Telephone: 785-776-2737**; or, see announcement #ARS-D8W-129 on website: <http://www.ars.usda.gov/afm/hrd>. Contact: **Paul Flinn, Telephone: 785-776-2707**; e-mail: flinn@usgmrl.ksu.edu for position information. Applications must be postmarked by June 6, 1998. *USDA/ARS is an Equal Opportunity Employer; women and minorities are encouraged to apply.*

MICROSCOPY FACILITY MANAGER RESEARCH ASSISTANT PROFESSOR

Immediate opening for non-tenure-track Research Assistant Professor with experience in fluorescence, scanning confocal, and light microscopy. Individual will manage new Center for Biotechnology Microscopy Core Research Facility serving research, teaching, and industrial clients located in the new George W. Beadle Center for Genetics and Biomaterials Research. Technical support provided. Doctorate required. Knowledge of computer-based image analysis, data storage, transmission, and networking essential. Extremely important that successful candidate is able to work effectively with people with diverse research interests and provide expertise and service. Individual will be expected to develop strong research collaborations with UNL scientists. Research professorial position will be administered through a specific academic unit. Screening of applications will begin May 1, 1998, and continue until suitable candidate is identified. Apply to: **Dr. James Kinder, Center for Biotechnology, University of Nebraska, N200 Beadle Center, Lincoln, NE 68588-0665. Telephone: 402-472-6438; e-mail: ansc502@unlv.unl.edu. Website: <http://www.biotech.unl.edu>.** *UNL is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity; is responsive to the needs of dual career couples; and assures reasonable accommodation under the Americans With Disabilities Act. Contact Dr. Kinder for additional information.*

UNIVERSITY OF FLORIDA

ASSISTANT/ASSOCIATE PROFESSOR/PROFESSOR position in geriatric medicine. The Department of Medicine, and Geriatric Research, Education, and Clinical Center (GRECC), VA Medical Center, Gainesville, Florida invites applications for a tenure-track position. The candidate should be an M.D., Board-certified in internal medicine with an interest in geriatrics and diabetes or obesity. The position will have a strong emphasis on research and the candidate must have demonstrated successful peer review. The successful candidate will join the GRECC faculty of four M.D.'s and four Ph.D.'s. Salary and benefits will be commensurate with education and experience. Application deadline: April 9, 1998. Anticipated starting date July 1, 1998. For consideration send curriculum vitae to: **David T. Lowenthal, M.D., Ph.D., Director, Geriatric Research, Education, and Clinical Center, VA Medical Center GRECC/182, 1601 S.W. Archer Road, Gainesville, FL 32608-1197. An Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

RESEARCH ENTOMOLOGIST Insect Behavior GS-11/12.

The USDA, Agricultural Research Service (ARS), Grain Marketing and Production Research Center, Manhattan, Kansas, announces a position for Research Entomologist (Behavior) who will serve in the Biological Research Unit. Duties include formulating and conducting basic and applied research that describes and measures, under laboratory and field conditions, the behavioral responses of stored-product insects to ecological variables and pest management practices at various points in the grain marketing system, and, using the knowledge obtained, devise novel insect control techniques. A Ph.D. in entomology or a related field is preferred. An extensive knowledge of the theory and experimental techniques of insect behavior, including approaches to experimental design, data collection, and statistical analyses specific to behavioral research is required, and a knowledge of the use of microcomputers in research is desirable. Salary is commensurate with qualifications and experience (\$38,593 to \$60,135). For vacancy announcement and application forms contact: **Jimmie Nell Oliver, Telephone: 785-776-2737**; or see announcement #ARS-D8W-131 on website: <http://www.ars.usda.gov/afm/hrd>. For position information contact: **Dr. Ralph Howard, Telephone: 785-776-2706**. Applications must be postmarked by June 6, 1998. *Must be a U.S. citizen. The USDA and its agencies are committed to Equal Employment Opportunity and applicable civil rights provisions; women and minorities are encouraged to apply.*

ASSISTANT PROFESSOR MOLECULAR BIOLOGY/TRAUMATIC BRAIN INJURY

A non-tenure-track position is available immediately for a Ph.D. to join an established program examining mechanisms of traumatic brain injury at The University of Texas Medical School-Houston. The medical school is located in the Texas Medical Center, an internationally recognized biomedical research location. The candidate would interact extensively with an established interdisciplinary program examining molecular and biochemical mechanisms of brain injury focusing on the development of new gene-based therapies. Previous experience in basic molecular and biochemical techniques including subtractive hybridization and differential screening is preferred. Position includes salary and fringe benefits.

Please send curriculum vitae and names of three references to: **Ronald L. Hayes, Ph.D., Department of Neurosurgery, University of Texas-Houston Medical School, 6431 Fannin, Suite 7.154, Houston, TX 77030. E-mail: rhayes@heart.med.uth.tmc.edu; FAX: 713-500-7787. The University of Texas-Houston is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION IN HUMAN CANCER CYTOGENETICS

A Postdoctoral position is available immediately in the expanding Division of Human Cancer Genetics, under the leadership of **Dr. Albert de la Chapelle**, to join a highly interactive group working on the identification of cancer susceptibility genes involved in human brain cancers and childhood cancer syndromes. Proven experience in molecular cytogenetics, FISH, and comparative genome hybridization (CGH) required. Applicants should be highly motivated with an interest in novel technologies. The successful candidate is expected to maintain a CGH facility for the brain tumor group. The possibility for Board certification exists. The position is for at least two years. Please send curriculum vitae and names of three references to: **Ralf Krahe, Ph.D., Division of Human Cancer Genetics, Medical Research Facility, Room 438, 420 West 12th Avenue, Columbus, OH 43210. Telephone: 614-688-4766; FAX: 614-688-4761; e-mail: krahe.2@osu.edu.**

Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE in vascular pharmacology available for recent Ph.D. in pharmacology or physiology. Project related to pharmacology of purine receptors and the involvement of second messenger systems in vascular smooth muscle and endothelial cells. Salary commensurate with experience. Experience in pulmonary physiology preferred. Send curriculum vitae and three letters of recommendation to: **Dr. S. Jamal Mustafa, Department of Pharmacology, East Carolina University, Greenville, NC 27858. Telephone: 919-816-2736. Affirmative Action/Equal Employment Opportunity. Accommodates individuals with disability. Applicants must comply with the Immigration Reform and Control Act.**

POSITIONS OPEN

TWO TEMPORARY POSITIONS

Two temporary one-year positions in the Wildlife Department for the 1998-99 academic year: **WILDLIFE ETHOLOGIST/CONSERVATION BIOLOGIST** (11/15 position), and **TERRESTRIAL WILDLIFE ECOLOGIST** (13/15 position). Both require Ph.D. or near completion with demonstrated expertise in wildlife biology and management. Ethologist/Conservation Biologist position also requires demonstrated expertise in ornithology, ethology, and conservation biology; courses taught may include ornithology, wildlife ethology, conservation biology, or other assigned courses depending on candidate's background. Terrestrial Wildlife Ecologist position also requires expertise in management of mammals, upland game, or nongame; courses taught may include principles of wildlife management, management of upland habitats, as well as management of mammals, upland game, or nongame wildlife, or other assigned courses depending on the candidate's background. Successful college teaching preferred. Salary is \$25,388 to \$32,895. Positions are subject to final budgetary considerations and to sufficient course enrollments. Submit curriculum vitae, transcripts of academic work, three letters of recommendation, and any other pertinent materials to: **Richard G. Botzler, Department of Wildlife, Humboldt State University, Arcata, CA 95521-8299. Telephone: 707-826-3953.** Application evaluations will begin on 21 April 1998 and continue until position is filled. *Humboldt State: Equal Opportunity/Affirmative Action/Title IX Employer.*

HYDROLOGIST. The National Research Program of the U.S. Geological Survey's (USGS) Water Resources Division invites applications for a full-time research position in Reston, Virginia. Research emphasis will be in computational river mechanics: need individual with strong background in fluid mechanics, surface water flow modeling, fluvial geomorphology, sediment transport and erodible bed dynamics, and/or surface-water constituent transport processes. Requires Ph.D. or equivalent experience with strong evidence of independent research capability. Salary \$47,000 to \$63,400, commensurate with experience. For detailed vacancy announcement, including specific qualification requirements and application procedures, contact: **The Personnel Office, Telephone: 703-648-6131; TTY: 703-648-7788.** Direct inquiries to: **Dr. G. Richard Marzolf, Chairman, Search Committee, USGS, Reston, VA, e-mail: rmarzolf@usgs.gov.** Submit résumé, bibliography, and brief description of research interests to: **USGS, Office of Personnel, 601 National Center, Reston, VA 20192.** Applications must be received by April 30, 1998. *The USGS is an Equal Opportunity Employer. U.S. citizenship required.*

BEN GURION UNIVERSITY OF THE NEGEV FACULTY OF HEALTH SCIENCES Department of Clinical Pharmacology Beer Sheva, Israel

The Department of Clinical Pharmacology invites applications for a faculty position in pharmacology. The department, covering preclinical and clinical pharmacology, is searching for a young **PHARMACOLOGIST**, after at least two years of postdoctoral research, trained in and mastering modern molecular biology methods. The successful candidate will be expected to develop an active independent research program and participate in undergraduate and graduate teaching. Applicants should submit a curriculum vitae, reprints of three key publications, a brief statement of research goals, and names and addresses of three references to: **Prof. Zvi Ben-Zvi, Department of Clinical Pharmacology, Ben Gurion University of the Negev, P.O. Box 653, Beer Sheva 84105 Israel. E-mail: zbenzvi@bgumail.bgu.ac.il.**

Applications should be submitted by July 15, 1998.

POSTDOCTORAL POSITION for an exciting project involving transgenic and knockout mouse models in the study for atherosclerosis is available in the Division of Molecular Medicine at Columbia University. Candidate must have extensive experience in molecular biological techniques; experience with transgenic and knockout mice is desirable but not necessary. Send curriculum vitae and three references to: **Dr. Ira Tabas, Department of Medicine, Columbia University, 630 West 168th Street, New York, NY 10032.**

An Equal Opportunity/Affirmative Action Employer.

Research Scientist/ Automated Screening



Astra is an international, researchbased pharmaceutical company with subsidiaries in some forty countries. Every day millions of people all around the world use pharmaceuticals from Astra. Astra has approximately 22,000 employees, of whom a third are in Sweden. Sales in 1997 totaled approximately SEK 45 billion. For more information about ASTRA, see: www.astra.com

ASTRA HÄSSLE AB

Astra Hässle is situated in Göteborg, Sweden and is a research company with 1,300 employees. Research is aimed at developing new pharmaceuticals for cardiovascular and gastrointestinal diseases. Atacand[®] (candesartan cilexetil), Imdur[®] (isosorbide-5-mononitrate), Logimax[®] (felodipine/metoprolol), Losec[®] (omeprazole), Plendil[®] (felodipine) and Seloken[®] (metoprolol), are drugs developed by Astra Hässle scientists.

To the department of Cell Biology & Biochemistry we are looking for a well-motivated person to lead a group responsible for the automation of biological screening in the preclinical unit at Astra Hässle. The purpose of the groups work is to more rapidly and effectively assess the actions of different chemical structures in biological systems in vitro.

Your responsibilities will include the development and daily-functioning of modern, automated robotic equipment and computer systems for logistics, analysis and calculation. In collaboration with preclinical scientists, you will develop and adapt cell-based and enzymatic assays to high-throughput automated methods. Your group will be responsible for the running of these screens at Astra Hässle. You will also be a key figure in Astra Hässle's interactions with Astra's central High-Throughput Screen Laboratory in Lund.

We are looking for a person who can meet the challenge of maintaining a technically competitive group in a rapidly developing area at the interface between biology and technology.

You should be a Ph.D. in biology or chemistry or have an equivalent experience with a strong interest in analysis techniques and data analysis. Your work will bring you into contact with many scientists within the preclinical unit and therefore an ability to collaborate effectively is of primary importance. It is assumed that you are competent in spoken and written English.

For further information please contact Jan Fryklund,
tel. no. +46 31-776 17 25 or Lennart Svensson,
tel. no. +46 31-776 12 86.

Application with full details should be marked "34/98 Research Scientist" and sent to the following address not later than April 9, 1998: Astra Hässle AB, Human Resources, Att. Linda Wikström, S-431 83 Mölndal.



POSITIONS OPEN

OPTICAL TOMOGRAPH SPECIALIST.

Knowledge of principles and practice of human muscle spectroscopy and imaging. Competition salary on NIH grant. Send résumé to: Dr. B. Chance, University of Pennsylvania, Medicine School, D501 Richards Building, Philadelphia, PA 19104.

POSTDOCTORAL POSITION NEUROBIOLOGY OF INSECT LOCOMOTION/ROBOTICS

Available immediately. Our project studies sensory feedback in insect walking to provide data for the construction and control of autonomous legged robots. Current experiments utilize high-speed three-dimensional video to image leg movements during extracellular recordings of nerve/muscle activities in freely walking insects. Applicants with experience in insect neurobiology and video imaging are preferred. Please send letter of interest, curriculum vitae, and e-mail address and names of three references to: Dr. Sasha Zill, Department of Anatomy, Cell and Neurobiology, Marshall University School of Medicine, 1542 Spring Valley Drive, Huntington, WV 25704. Telephone: 304-696-7384; FAX: 304-696-7290; e-mail: zill@musom01.mu.wvnet.edu. Women and minorities are strongly encouraged to apply.

MOLECULAR BIOLOGY/VIRAL IMMUNOLOGY

POSTDOCTORAL/RESEARCH ASSOCIATE position is available immediately to investigate the immunopathogenesis of HIV infection using novel SCID-hu and transgenic mouse models (PNAS 94:14637, 1997; JID 177:337, 1998). Position will require extensive experience and skill in molecular biology. Send curriculum vitae and names and telephone numbers of three references to: Dr. Harris Goldstein, Chanin Room 601, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. E-mail: hgoldste@acom.yu.edu. Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH INVESTIGATOR. To join Division of Pulmonary and Critical Care Medicine in an academic medical center. Current research works include cardiopulmonary interactions, mechanisms of inflammation in shock, and neurobiological control of sleep apnea. Applicant should have experience in immunology, molecular biology, cell culture, and monoclonal antibodies. Send curriculum vitae and three letters of reference to: Harry Steinberg, M.D., Division of Pulmonary and Critical Care Medicine, Room C-20, Long Island Jewish Medical Center, 270-01 76th Avenue, New Hyde Park, NY 11040. FAX: 718-470-1035. LIJMC is the Long Island campus for the Albert Einstein College of Medicine. North Shore-Long Island Jewish Health System is an Equal Opportunity Employer.

POSTDOCTORAL POSITION CELL AND MOLECULAR BIOLOGY

Postdoctoral position available immediately to study cellular and molecular regulation of membrane transport proteins in cancer, pathogenesis of breast, and other cancers (e.g., Her-2-neu, BRCA1/2, IGF-I, and p53). Gene cloning an advantage. Applicants must have Ph.D./M.D. with extensive experience in molecular biology and genetics. Send résumé and three references to: Dr. Jay Vadgama, Director, Laboratory Research and Development, Charles R. Drew University of Medicine and Science, Los Angeles, CA 90059. FAX: 213-563-4859; Telephone: 213-563-4853.

A POSTDOCTORAL POSITION is available for a Ph.D. in pharmacology, biochemistry, or molecular biology. This NIH-funded research program is uniquely situated at the chemistry/biology interface and focuses on the mechanism by which a series of nonsteroidal ligands modulate receptor-mediated transcriptional activation. Experience in protein chemistry and/or molecular biology. Send curriculum vitae to: J. T. Dalton, Ph.D., University of Tennessee, 874 Union Avenue, Room 5, Memphis, TN 38163. FAX: 901-448-6940; e-mail: jdalton@utmem.edu. The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer.

POSITIONS OPEN

Scotts

THE SCOTTS COMPANY AND SUBSIDIARIES PLANT MOLECULAR BIOLOGIST

Leading turfgrass company seeks Plant Molecular Biologist to help build a world-class turfgrass genetic engineering program. Postdoctoral experience with chloroplast genetics desirable. Must be able to function as part of an integrated team, including Cell Biologist, Breeder, and Pathologist. Must be effective in collaborations with off-site scientists.

Duties will include participation in program planning, prioritization, and establishment of collaborations, in addition to plant molecular biology activities. Molecular biology activities will include gene synthesis, design and construction of plasmids, sequencing, DNA preparations for transformation, documentation of transformants, and monitoring of gene expression and gene stability.

Interested candidates should submit a résumé to: Corporate Human Resources, The Scotts Company, 14111 Scottslawn Road, Marysville, OH 43041.

The Scotts Company is an Equal Employment Opportunity Employer committed to a culturally diverse work force.

POSTDOCTORAL POSITION IN GENE EXPRESSION UCLA

A position in the UCLA Jonsson Comprehensive Cancer Center is available immediately for a minimum of two years to study the roles of nuclear coactivator proteins in transcriptional transactivation by the aryl hydrocarbon receptor (AHR), ARNT, and other members of the bHLH-PAS family of transcription factors. Extensive experience in molecular biological and biochemical techniques is required, with particular emphasis on protein-DNA and protein-protein interactions. The position offers a competitive salary. Send application, including curriculum vitae, and names, addresses, and telephone numbers of three references to: Oliver Hankinson, Ph.D., Department of Pathology and Laboratory Medicine, University of California, Los Angeles, Center for Health Sciences, Box 951732, Los Angeles, CA 90095-1732. FAX: 310-794-9272; e-mail: ohank@pathology.ucla.edu.

UCLA is an Equal Opportunity/Affirmative Action Employer.

ANTIBODIES TO NUCLEIC ACIDS POSTDOCTORAL POSITION

Available immediately, as member of a strong RNA research team. Antibody project has commercial potential and possible entry position at biotechnology firm. Applicants should have experience in hybridoma cell culture and monoclonal antibody screening, techniques, and purification. Competitive salary commensurate with experience. Reply with detailed résumé, date available, summary of technical ability in hybridoma cell culture and antibody methods, and three letters of reference promptly dispatched to: Dr. Paul F. Agris, Biochemistry, Box 7622, North Carolina State University, Raleigh, NC 27695-7622 USA. E-mail: agris@bchserver.bch.ncsu.edu.

ASCI Corporation has an immediate opening for a **MOLECULAR BIOLOGY TECHNOLOGIST** (B.S. or M.S.) to work in a nucleic acid research laboratory with an automated DNA sequencer, oligonucleotide synthesizer, a robotic liquid handling station, and a laser-scanning confocal microscope. Experience in analyzing nucleic acids extracted from environmental matrices required. Knowledge in DNA and RNA hybridization, nucleic acid extraction, amplification (PCR), transposon mutagenesis, or cloning desired. Send résumé, with references, to: ASCI Corporation, 3402 Wisconsin Avenue, Suite 5, Vicksburg, MS 39180. FAX: 601-638-1372; e-mail: carol@ascicorp.com. Equal Employment Opportunity.

UNIVERSITY OF PENNSYLVANIA

POSTDOCTORAL POSITION available to study molecular mechanisms of ion channels using a combined approach of molecular biology, biochemistry, and electrophysiology. Candidates should have a Ph.D. and expertise in one of the above three fields. Please send curriculum vitae along with names and telephone numbers of three references to: Dr. Zhe Lu, Department of Physiology, University of Pennsylvania, Richards/6085, Philadelphia, PA 19104. E-mail: zhelu@mail.med.upenn.edu.

POSITIONS OPEN

RESEARCH POSITIONS

The immunohematology/immunochemistry research program of the Blood Research Institute seeks qualified individuals (M.D. and/or Ph.D.) with research interests in immunochemistry or vascular biology plus experience/expertise in protein chemistry, membrane biophysics, or cell and molecular biology. Current research focus is the regulation of plasma membrane, phospholipid asymmetry, and the interaction of complement and coagulation systems at cell surfaces. Candidates for Postdoctoral Fellowship or staff appointments will be considered. Send résumé, brief description of research interests, and references to:

Peter J. Sims, M.D., Ph.D.
The Blood Research Institute
The Blood Center
P.O. Box 2178
Milwaukee, WI 53201-2178
FAX: 414-937-6284
E-mail: peter_s@bcsew.edu

TULANE UNIVERSITY MEDICAL CENTER TULANE REGIONAL PRIMATE RESEARCH CENTER Department of Parasitology

A POSTDOCTORAL ASSOCIATE is sought to join a multidisciplinary group working on the pathogenesis and immunoprophylaxis of Lyme disease. Backgrounds in molecular biology of prokaryotes or in immunology would be advantageous. Please send curriculum vitae and names of three references by January 10, 1998, to: Dr. Mario T. Philipp, Chairman, Department of Parasitology, Tulane Regional Primate Research Center, 18703 Three Rivers Road, Covington, LA 70433. E-mail: philipp@tpc.tulane.edu.

Tulane University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS. Available immediately for the neurobiological analysis of sensory function. Main emphasis involves the study of signal transduction mechanisms in mammalian taste receptor cells using patch-clamp techniques. Other techniques, such as immunocytochemistry, *in situ* hybridization, and Northern blotting are also employed. Experience with patch-clamp recordings is strongly preferred. Send curriculum vitae and names of references to:

Dr. Scott Herness
Department of Oral Biology
College of Dentistry
Ohio State University
305 West 12th Avenue
Columbus, OH 43210

Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION to investigate the mechanism of action of insulin. The laboratory uses a variety of contemporary molecular and biochemical methods to investigate signal transduction pathways. Experience in these areas is desirable, but not essential. Both foreign and domestic applicants with a Ph.D. in biochemistry, molecular biology, cell biology, or a related discipline will be considered. Starting salary will be between \$22,000 and \$26,000 US, depending on experience. To apply send a cover letter and résumé to:

Dr. John C. Lawrence
Department of Pharmacology, Jordan Building
University of Virginia School of Medicine
1300 Jefferson Park Avenue
Charlottesville, VA 22908

Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE

Position available to study the enzymology of radiation-induced DNA double strand break repair and, in particular, the role of BRCA genes in the process. Candidates must have exposure to radiobiology and an excellent background in molecular biology and biochemistry. Candidates with experience with *in vitro* repair assays and exposure to BRCA research preferred. Please send curriculum vitae and three letters of recommendation to: Dr. George Iliakis, Thomas Jefferson University, Department of Radiation Oncology, Thompson B-1, Philadelphia, PA 19107. E-mail: iliakis1@jefflin.tju.edu.



**SWISS FEDERAL INSTITUTE
OF TECHNOLOGY, LAUSANNE**
(200 Professors, 4,500
students, 650 Ph.D. students)

**invites applications
for the recently endowed
Branco Weiss Chair**

**Professor for
Entrepreneurship
and Innovation**

The primary role of the Chair will be to teach and further the development of methods for professional enterprise and technology transfer.

Applicants will have completed higher-level university studies, preferably in engineering or science, and should have extensive experience of technological enterprise. Success in founding and developing new companies would be a strong advantage (for example, in the fields of microtechnology, communication systems, computer science, bioengineering, or electrical engineering).

Candidates should be committed to working with and guiding young entrepreneurs and encouraging the creation of new companies and their successful growth. The ability to initiate and implement projects with financial experts, industrialists, and scientists would be an important strength.

EPFL is a top technical university with a strong international orientation located near to Lausanne on the shores of Lake Geneva. Further information about EPFL is available from our website: <http://www.epfl.ch>.

Starting dates will be fixed by mutual agreement. Applications from women candidates are encouraged. Applications must be submitted before 20 June 1998 to:
**Professor Dr. John C. Badoux,
President, Swiss Federal Institute of Technology, CE-Ecublens,
CH-1015, Lausanne, Switzerland,
FAX no.+41 21 693 70 84.**

Hoechst Marion Roussel

Head of Microbiology Unit in Anti-infective Diseases Group based in Romainville, near Paris (France)

The ideal candidate will have Ph. D or equivalent in Microbiology or Pharmacology, with 5 years experience of *in vivo* and *in vitro* evaluation of anti-infective compounds and a minimum of 3 years experience of managing teams. Good motivational skills are essential. The candidate must be able to exhibit a proven track record of compound progression from research through development and knowledge of *in vivo* evaluation processes to define novel targets for anti-infectives.

Preference will be given to candidates with a good understanding of the competitive environment and an established network of academic contacts.

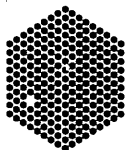
It is necessary to have a good command of the English language. Speaking French is a plus.

If you are interested, please forward your resume and list of publications to :

Hoechst Marion Roussel,
Madame J. CARRERE
102 route de Noisy
93235 ROMAINVILLE Cedex (FRANCE).

Hoechst ■

Hoechst Marion Roussel
The Pharmaceutical Company of Hoechst



EMBL

Hamburg Outstation

The European Molecular Biology Laboratory (EMBL), an international research organisation with its Headquarters Laboratory in Heidelberg (Germany), Outstations situated in Grenoble (France), Hamburg (Germany) and Hinxton (UK), and a Research Programme at Monterotondo (Italy) has the following vacancy in **Hamburg**.

STAFF SCIENTIST - PROTEIN CRYSTALLOGRAPHER (ref.: 98/18)

The EMBL Hamburg Outstation carries out research in structural biology, making use of the special properties of synchrotron radiation. The Outstation operates four synchrotron beam lines in protein crystallography. These beam lines are available to the international user community and for in-house research activities.

The successful candidate will be expected

- to carry out independent research projects in molecular structural biology. All in-house facilities, including state-of-the-art wet laboratory, will be available. Collaboration with other research groups from EMBL and from the external user community is encouraged.
- to participate in the external user support in protein crystallography within a team of three research groups and three independent staff scientists; to be involved in a further development of these beam lines.

Candidates should have a PhD, postdoctoral training, significant research accomplishments and demonstrated expertise in protein crystallography.

Commencing date: As soon as possible

Closing date for applications: 01 May 1998

Further information can be obtained from Dr. Matthias Wilmanns,
tel.: +49 89902 126; fax: +49 89902 111; email: wilmanns@embl-hamburg.de
www: <http://www.embl-hamburg.de>

EMBL is an inclusive, equal opportunity organisation.

Applicants should submit a curriculum vitae, including a description of current and planned research activities, and names and addresses of three referees, quoting ref. no. 98/18 to:

The Head of Human Resources, EMBL, Postfach 10.2209, D-69012 Heidelberg. Fax: +49 6221 387555; Tel.: +49 6221 387 208; email: jobs@EMBL-Heidelberg.de

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP IN MOLECULAR BIOLOGY OF CHOLINERGIC RECEPTORS AND ENZYMES

University of California-Davis

A position is available for three years to study the molecular structure of cholinergic receptors and enzymes. The Ph.D. degree in molecular biology/biochemistry and fluency in the English language are required. Applicants should be proficient in polymerase chain reaction, *in situ* hybridization, Northern analysis, recombinant protein technology, and Western blotting to use these, other standard biochemical approaches, and cell culture techniques to characterize the nicotinic and the muscarinic classes of cholinergic receptors and cholinergic enzymes expressed by the oral epithelial cells.

We offer a competitive salary and excellent benefit package. Send/FAX a cover letter stating career goals, curriculum vitae, and names of references in the United States to: **Sergei A. Grando, M.D., Ph.D., D.Sc., Department of Dermatology, University of California-Davis, 1605 Alhambra Boulevard, Suite 2300, Sacramento, CA 95816-7051 USA. FAX: 916-734-6793.** Equal Opportunity Employer.

POSTDOCTORAL POSITION IN STRUCTURAL BIOLOGY

A Postdoctoral position is available immediately for structural and biochemical studies of protein-DNA interactions (*JMB* 276(4):809-818, 1998; *JMB* 276(4):797-808, 1998; *Nature* 359:505-512, 1992). Candidates should have expertise in either protein biochemistry or X-ray crystallography. Send curriculum vitae and names of three references to: **Dr. Rashmi Hegde, Skirball Institute of Biomolecular Medicine, New York University Medical Center, 540 First Avenue, New York, NY 10016. FAX: 212-263-8951. E-mail: rashmi@saturn.med.nyu.edu.**

POSTDOCTORAL POSITION

The Department of Medicine at Mount Sinai School of Medicine has a Postdoctoral position available immediately to study integrin-extracellular matrix interactions and integrin-mediated cell signaling. Experience in molecular and/or cell biology required.

Please send curriculum vitae and three references to: **Dr. Lynn Schnapp, Box 1232, Department of Medicine, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. FAX: 212-987-1470; e-mail: lschnapp@smtpink.mssm.edu.** We are an Equal Opportunity Employer fostering diversity in the workplace.

POSTDOCTORAL POSITIONS IN MAMMALIAN GENETICS

Positions are available in two projects. (1) Functional analysis of the mouse genome using mutagenesis. New methods for creating chromosomal deletions (*Nat. Gen.* 15:285, 1997) and point mutations using ES cells are being used to isolate developmental and meiotic mutants. (2) Genetic control of recombination, using transgenic and knockout strategies. To inquire, send curriculum vitae to: **John Schimenti, Ph.D., The Jackson Laboratory, Bar Harbor, ME 04609. E-mail: jcs@jax.org; Telephone: 207-288-6402; website: http://www.jax.org/~jcs.**

POSTDOCTORAL POSITION MIT

Immediate opening to study chemical, biochemical, and molecular aspects of oxidative DNA damage. Prefer recent Ph.D. with quantitative background in DNA biochemistry and PCR with experience in mammalian cell culture and molecular biology. Send, FAX, or e-mail curriculum vitae, names and telephone numbers of three references, and a statement of research interests to: **Prof. Peter Dedon, Division of Toxicology, 56-787, MIT, Cambridge, MA 02139. FAX: 617-258-0225; e-mail: pcdedon@mit.edu.**

POSTDOCTORAL POSITION available for studies on the regulation of human cytomegalovirus gene expression and impact of the viral infection on the host cell cycle. Experience in molecular biology and either cell biology or biochemistry is required. Please send curriculum vitae and names of three references to: **Dr. Deborah H. Spector, Department of Biology 0357, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0357. E-mail: dspector@ucsd.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS

Postdoctoral positions are available for individuals interested in investigating the role of leukocyte adhesion receptors in inflammation. We study the function of these receptors using gene-targeted mice in disease models, and cells cultured from these mice in *in vitro* assays. Present studies include investigating (1) mechanisms regulating neutrophil apoptosis; (2) role of leukocyte adhesion receptors in glomerulonephritis; and (3) role of the β_2 integrin, CD11b/CD18, in leukocyte functions *in vitro* and *in vivo*.

Strong background in molecular biology or pathology is desired. Experience in investigating signaling mechanisms or small animal experimentation a plus. Publication(s) in international journals is a prerequisite. Send curriculum vitae and names of three references to:

**Tanya Mayadas, Ph.D.
Assistant Professor of Pathology
Brigham and Women's Hospital and
Harvard Medical School
221 Longwood Avenue, Room 404
Boston, MA 02115
FAX: 617-732-5933**

An Equal Opportunity Employer.

POSTDOCTORAL POSITION. A position is available immediately to study cellular mechanisms underlying tachypacing-induced dysfunction in cardiac myocytes. Studies involve the use of single cell patch clamp recording methods and intracellular calcium measurements using confocal microscopy. Applicants must have a Ph.D. or M.D. degree. Experience with single cell electrophysiological recording methods and/or intracellular calcium measurements using calcium-sensitive dyes and fluorescence microscopy is desirable. Please send curriculum vitae and the names and addresses of three references to: **Stephen Lipsius, Ph.D., Loyola University Chicago, Stritch School of Medicine, Department of Physiology, 2160 South First Avenue, Maywood, IL 60154. E-mail: slipsius@luc.edu.**

The Department of Physiology and Biophysics at the University of Alabama at Birmingham invites applications for **POSTDOCTORAL FELLOWS** on a NIH training grant beginning July 1, 1998. Expertise in membrane transport, intracellular signaling, molecular biology, and electrophysiology of ion channels and other transporters is sought. Applicants must be U.S. citizens. Please send curriculum vitae, statement of research plans, and three letters of recommendation to: **Dale J. Benos, Ph.D., 1918 University Boulevard, MCLM 706, Birmingham, AL 35294.**

The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE positions in molecular physiology of ion channels involved in Ca^{2+} signaling (IP_3 receptor), disease (cystic fibrosis, CFTR), and apoptosis (bcl/bax). Molecular, genetic, biochemical, electrophysiological, and imaging approaches will be used to examine structure/function, protein-protein interactions, and biogenesis. Experience in any of these areas desirable. Send curriculum vitae and names of three references to: **Dr. Kevin Foskett, Department of Physiology, Room 313B, Stellar-Chance Laboratories, University of Pennsylvania, Philadelphia, PA 19104-6100. FAX: 215-573-6808.** An Equal Opportunity Employer.

POSTDOCTORAL POSITION

Postdoctoral positions available immediately for candidates with expertise in molecular biology. Projects include gene therapy and epithelial biology. Send curriculum vitae and names of three references to: **Dr. Paul A. Khavari, Stanford University School of Medicine, MSLS Building P206, Stanford, CA 94304-5486. FAX: 650-723-8762.**

Stanford University is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

SCIENTIST POSITION. A biotechnology company anticipates funding for a research initiative, and is now receiving applications. Interested applicants with Ph.D. degrees and training in molecular virology or with management skills related to responsibilities in preclinical drug studies and IND submissions can send curriculum vitae with references to: **Dr. J. A. Wright and Dr. A. Young, GeneSense Technologies, Inc., 100 Olivia Street, Room ON222, Winnipeg, Manitoba R3E 0V9 Canada. FAX: 204-787-2938.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN DRUG DISCOVERY PROGRAM

H. Lee Moffitt Cancer Center
and Research Institute

University of South Florida College of Medicine

Postdoctoral positions are available immediately in basic research on signal transduction pathways that are critical for controlling cell growth and death. These molecular biology and molecular pharmacology studies are directed toward discovery of new chemotherapeutic targets and development of drugs that selectively and effectively block growth of cancer cells. The research laboratories include: **Q. Ping Dou, Ph.D., Said M. Sebti, Ph.D., and Hong-Gang Wang, Ph.D.** Applicants should have a Ph.D. and strong background in molecular biology, biochemistry, cell biology, and/or pharmacology. Send a current curriculum vitae and names, addresses, and telephone numbers of three references to: **Dr. Said M. Sebti, Director, Drug Discovery Program, Professor, Department of Biochemistry and Molecular Biology, H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida, 12902 Magnolia Drive, Tampa, FL 33612-9497. FAX: 813-979-6748.** Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE

Self-motivated Ph.D.'s and/or M.D.'s with experience in the area of gene regulation, adenovirology, or lentivirology are invited to apply for challenging positions with career advancement opportunities in a rapidly expanding research program focused on gene therapy for metabolic and endocrine disorders. The laboratories are located in a newly constructed research tower with state-of-the-art equipment to facilitate progress. Qualified candidates should submit applications, including curricula vitae and bibliographies, plus three letters of recommendation to: **Dr. Savio L. C. Woo, Professor and Director, Institute for Gene Therapy and Molecular Medicine, Box 1496, One Gustave L. Levy Place, New York, NY 10029-6574.** We are an Equal Opportunity Employer fostering diversity in the workplace.

POSTDOCTORAL POSITION DNA NANOTECHNOLOGY

Postdoctoral position available immediately to characterize unusual DNA motifs related to recombination and to use them in nanotechnology (*Accts. Chem. Res.* 30:357-363, 1997). Experience with DNA manipulation (e.g., ligation, electrophoresis) required. Scanning probe microscopy or crystallography useful. Please mail, FAX, or e-mail curriculum vitae and three letters of reference to: **Professor Nadrian C. Seeman, Department of Chemistry, New York University, New York, NY 10003. FAX: 212-260-7905; e-mail: ned.seeman@nyu.edu.** Application deadline May 1, 1998.

POSTDOCTORAL POSITION available immediately to study the biology of neural precursor/stem cells, especially after transplantation to the rodent nervous system. Candidates (zero to three years of postdoctoral experience) preferred with expertise in cell culture or small animal surgery. Forward curriculum vitae and names of two references to: **William Schwartz, M.D., Department of Neurology, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655. FAX: 508-856-6778.** The University of Massachusetts Medical Center is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL TRAINING. Projects include (1) using T cells to deliver therapy to brain microtumor; (2) probing basis of site-specific immune control in the brain. See: *Cancer Res.* 53:176, 1993; *Immunol. Today* 19:17-22, 1998. Experience in cellular immunology and/or neuropharmacology desirable. To apply, briefly describe the basis for your interest and relevant experience (not a form letter). Start date flexible. Reply to: **Dr. L. Lampson, Harvard Institutes of Medicine, 77 Avenue Louis Pasteur, Boston, MA 02115.**

POSTDOCTORAL POSITIONS available to study transcriptional control of growth arrest and terminal differentiation during neurogenesis and spermatogenesis. Projects are also relevant to nervous system tumorigenesis. Studies involve cloning and functional analysis of transcription factors, including transgenics. Send curriculum vitae to: **Dr. Daniel L. Kilpatrick, University of Massachusetts Medical Center, 222 Maple Avenue, Shrewsbury, MA 01545. FAX: 508-842-9632; e-mail: kilpatrick@sci.wfbr.edu.**

The Wellcome Trust

Noncommunicable Diseases in Developing Countries: Call for Research Proposals

The Trust is pleased to announce a new programme to encourage research on noncommunicable diseases in developing countries and the restructuring countries of Central and Eastern Europe. The Trust recognises the increasing importance of such diseases, consequent upon rapid social and economic change, and particularly invites proposals which address the implementation of research findings into health policy and practice in the long term. Development of sustainable research expertise in developing or restructuring countries in conjunction with the research is specifically encouraged.

Proposals dealing with psychiatric disorders and cardio/cerebrovascular disease are anticipated along with other major noncommunicable diseases and disorders as diverse as diabetes, tobacco and alcohol related disease, cancer and physical injuries. Research into nutrition as related to noncommunicable disease may also be addressed.

Collaboration: The Trust wishes to promote collaboration between researchers in developing and restructuring countries and researchers in recognised universities, medical schools or similar institutions in the United Kingdom and Republic of Ireland. Applications will be accepted from investigators in developing or restructuring countries either separately or in collaboration with UK-based investigators, and from UK-based researchers with collaborators in the developing and restructuring world.

Funding and Eligibility: Grants may be for research **projects** (up to three years) and **programmes** (up to five years). Applicants for project and programme grants must hold an established post in an eligible university or research institute in the UK or Irish Republic, or in a developing or restructuring nation. **Training Fellowships** are also available to assist junior investigators from developing/restructuring countries to develop research careers in this area in their home countries. Candidates should normally hold, or expect to obtain, a PhD degree, or be medical graduates with equivalent research experience (up to six years postgraduate). Preliminary approaches to the Trust should include: an outline of the proposed research; curricula vitae for the principal investigators; an approximate budget; and, for fellowships, letters of support from the institutions in which they propose to work, both in their home country and in the country where they will obtain their training. Applications will be considered throughout the year. Information sheets for Project and Programme Grants and Training Fellowships are available upon request.

Further information about the initiative can be obtained from: **The Grants Section (Tropical), The Wellcome Trust, 183 Euston Road, London NW1 2BE. Tel: 0171 611 7236; Fax: 0171 611 7288.** Information is also available on the Web site (www.wellcome.ac.uk).



The Wellcome Trust is a Registered Charity, No. 210183, and seeks to support research in biomedical sciences and the history of medicine by means of grants and other activities.

GLOBAL OPPORTUNITIES

Institute of Biomedical Sciences (IBMS)

Academia Sinica, Taiwan

Tenure Track Faculty Positions

IBMS is housed in new, well-equipped facilities on the Academia Sinica campus in Nankang, Taipei. Primary research aims in the Institute are to unravel the molecular mechanisms underlying human physiology and diseases and to develop novel therapeutic strategies for important diseases in Taiwan. Several interdisciplinary research programs have been established. As a continuing effort to build up these programs, we are seeking well-qualified applicants with strong backgrounds and interests in the following areas of research:

cancer metastasis, vascular biology, DNA vaccination and cell-molecular immunology, statistical genetics, neurodegenerative diseases, gene knockout technology, MR imaging related fields (functional MRI, animal and clinical MRI).

Individuals with an advanced degree (Ph.D. or M.D. or M.D./Ph.D.) who have completed post-doctoral training and demonstrated productivity are encouraged to apply. Successful candidates will be expected to develop a vigorous, competitive and interactive research program. Applications accompanied by a curriculum vitae with bibliography, a statement of research interests and a concise research proposal and three reference letters should be sent to **Dr. T. K. Tang, Chairman, Recruitment Committee, Institute of Biomedical Sciences, Academia Sinica, Taipei 11529, Taiwan, ROC.** For details see our Web site at: <http://www.sinica.edu.tw>.

EUROPEAN OPPORTUNITIES

Hoechst Marion Roussel

The BONE DISEASES Research Group has implemented a cutting-edge long term program in OSTEOPOROSIS prevention and treatment. This group has an opening for

Head, Bone Pharmacology Unit based near Paris (France)

This unit is, with the Biochemistry and the Cell and Molecular Biology units, involved in the osteoporosis research program, also supported by several Core Research Functions and Chemistry as well as several strategic alliances with biotechnology companies based in the US and in Europe. The Pharmacology Unit is currently composed of 4 individual laboratories, each with a Scientist and adequate technical support. In addition, the candidate will be a member of the osteoporosis program steering committee.

The successful candidate will have a degree in medicine (M.D.) and/or in biology (Ph. D.) and several years of experience in human bone metabolism and/or in animal models of osteoporosis as well as in cutting-edge methods of evaluation (DXA, pQCT, bone markers, histology and histomorphometry, etc.). Experience in leading a laboratory or a group in an industrial environment is an advantage. It is necessary to have a good command of the English language. Speaking French is also a plus.

If you are interested, please forward your resume and list of publications to :
Hoechst Marion Roussel,
Madame J. CARRERE
102 route de Noisy
93235 ROMAINVILLE Cedex (FRANCE).

Hoechst

Hoechst Marion Roussel
The Pharmaceutical Company of Hoechst

POSITIONS OPEN

POSTDOCTORAL RESEARCH OPPORTUNITY

A Postdoctoral position is available at the University of Wisconsin-Madison in an interdisciplinary team working on discovery of bioactive compounds through direct cloning of genomic DNA from microbial diversity in natural environments. The successful applicant will have a strong background in molecular biology and microbiology, and experience in or aptitude for computational analysis of DNA sequences for functional and phylogenetic inference. This position offers an opportunity to contribute to a frontier in microbiology and biomedical discovery to collaborate with an outstanding scientific team in industry, and to gain interdisciplinary experiences.

Requirements include a Ph.D., strong writing and oral communication skills, positive attitude, strong work ethic, and ability to work both independently and as a member of a team.

To apply, send a letter of interest, a summary of previous research experience, curriculum vitae, and names (with complete postal addresses, telephone numbers, and e-mail addresses) of three references to: **Ms. Laurie Luther, University of Wisconsin, Room 680 Russell Laboratories, 1630 Linden Drive, Madison, WI 53706.** For further information, contact: **Professor Jo Handelsman, e-mail: joh@plantpath.wisc.edu** or **Professor Robert Goodman, e-mail: rgoodman@facstaff.wisc.edu.** Full consideration assured for applications received by April 15, 1998.

POSTDOCTORAL POSITIONS to develop molecular biology and statistical techniques in gene mapping and gene expression studies using DNA microarrays. Candidates must have a Ph.D. in genetics, molecular biology, or statistics. Good understanding of gene expression, gene mapping, genomics, computer programming, and bioinformatics desirable.

RESEARCH TECHNICIAN positions. Candidates must have a B.S./M.S. in molecular biology or genetics. They should have experience in isolation and purification of RNA from tissues and cells, mRNA quantitation using Northern blot and PCR, RT-PCR, and subcloning. Computer programming experience is also desirable.

Send résumé and the names (telephone number and e-mail) of three references to: **Dr. Vivian Cheung and Dr. Richard Spielman, The Children's Hospital of Philadelphia, 510 Abramson Research Center, Philadelphia, PA 19104. FAX: 215-590-3709.** *Affirmative Action/Equal Opportunity Employer.*

MOLECULAR NEUROSCIENCE

The Cellular Neuroscience Section of the Pain Neurosensory Mechanisms Branch, National Institute of Dental Research, NIH is recruiting a senior-level **POSTDOCTORAL FELLOW/STAFF FELLOW** to join a research program investigating the control of gene expression in animal models of pain or nerve injury. Training and experience in molecular biology is required. Salary commensurate with experience. Please send a curriculum vitae, three letters of recommendation, and a cover letter outlining areas of research interest and skills to: **Dr. M. A. Ruda, 49 Convent Drive, Building 49, Room 1A11, Bethesda, MD 20892. FAX: 301-402-0667.** Application materials must be received by April 15, 1998. *NIH is an Equal Opportunity Employer.*

RESEARCH ASSOCIATE POSITION MOLECULAR/CELL BIOLOGY

Research Associate Position available immediately to study cellular and molecular biology of biliary epithelial growth and response to injury using cellular and animal model systems. Opportunity to learn cell biology methods, but experience in molecular biology required. Please send curriculum vitae and names of three references to: **A. J. Demetris, M.D., Director, Division of Transplant Pathology, University of Pittsburgh Medical Center, E1548 Biomedical Science Tower, Pittsburgh, PA 15261.**

An Equal Opportunity Institution.

POSTDOCTORAL POSITION available for combined genetic, biochemical, and cytological study of cytoplasmic dynein function. Good salary and health insurance provided. Recent Ph.D.'s in cell biology, molecular biology, or biochemistry should send their curriculum vitae and the names, telephone numbers, and e-mail addresses of three references to: **Dr. Ron Morris, Department of Pharmacology, University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854.** *UMDNJ is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

NIH-funded POSTDOCTORAL POSITIONS available immediately at the Center for Advanced Research in Biotechnology (CARB) for **BIOCHEMISTS/MOLECULAR BIOLOGISTS** with recent Ph.D.'s to join multidisciplinary team investigating molecular basis of antigen recognition by antibodies and T-cell receptors (TcRs). Projects include (1) study of antibody specificity by site-directed mutagenesis and phage display and (2) X-ray crystallographic and solution binding studies of recombinant TcRs, MHC molecules, and superantigens. (*Science* 267:1984, 1995; *Nature* 374:739, 1995; *Nature* 384:188, 1996; *Biochemistry* 35:9667, 1996; *Nature* 391:502, 1998; *J. Exp. Med.* 187:823, 1998). Experience in heterologous protein expression in bacterial and/or eukaryotic cells, or in BIAcore/sedimentation equilibrium/calorimetry, highly desirable. CARB is a joint research center of the National Institute of Standards and Technology and the University of Maryland. Excellent opportunities for collaborative studies with Crystallographers and Physical Biochemists. Send curriculum vitae and names of three references to: **Dr. Roy Mariuzza, Center for Advanced Research in Biotechnology, 9600 Gudelsky Drive, Rockville, MD 20850. E-mail: mariuzza@indigo2.carb.nist.gov.**

Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE position is available at California State University, Dominguez Hills (CSUDH), located in the Los Angeles area. The Associate will conduct research projects concerned with light/dark changes in the octopus retina involving the cytoskeleton. CSUDH is a minority-serving institution, funded by the NIH Minority Biomedical Research Support Program. Experience with fluorescence microscopy, electron microscopy, and standard biochemical and molecular methods required. Position available immediately. Send curriculum vitae and three references to: **Dr. Laura J. Robles, College of Arts and Sciences, California State University, Dominguez Hills, 1000 East Victoria Street, Carson, CA 90747. FAX: 310-516-4268; e-mail: lrobles@research.csudh.edu.** *CSUDH is an Equal Employment Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS

Two NIH-funded positions available June 1, 1998, to study the role of protein phosphatase 5 (PP5), a component of hsp90 chaperone complexes, in signal transduction by steroid receptors and in the cyclic GMP signaling pathway. Projects studying the molecular genetics of PP5 in model organisms are also available. Send curriculum vitae, including publications in English-language journals, and the telephone numbers of references to: **Michael Chinkers, Ph.D., Department of Pharmacology, University of South Alabama, College of Medicine, MSB 3130, Mobile, AL 36688-0002. E-mail: chinkers@ohsu.edu.** *The University of South Alabama is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION

The Department of Human Genetics at Mount Sinai School of Medicine has a Postdoctoral position available to study human chromosome segregation and the structure and function of centromeres, toward making human chromosomes. Experience in molecular and cell biology, cell culture, cytogenetics, or microscopy is desirable.

Candidates should send curriculum vitae, research goals, and letters of reference to: **Peter Warburton, Ph.D., Department of Human Genetics, Mount Sinai School of Medicine, Box 1498, One Gustave L. Levy Place, New York, NY 10029-6574.** *We are an Equal Opportunity Employer fostering diversity in the workplace.*

A **POSTDOCTORAL POSITION** is immediately available to investigate the effects of rTS proteins on thymidylate synthase (subcellular distribution, activity, and protein-protein interactions). The applicant should have biochemistry experience with enzymes and proteins. Please submit a curriculum vitae and a list of three references to: **Dr. B. J. Dolnick, Department of Pharmacology and Therapeutics, Roswell Park Cancer Institute, Buffalo, NY 14263. E-mail: dolnick@sc3103.med.buffalo.edu.** *Roswell Park is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

CANCER RESEARCH POSTDOCTORAL POSITIONS

UNMC/EPPLEY CANCER CENTER
University of Nebraska Medical Center

Several Postdoctoral positions exist within the academic units comprising the University of Nebraska Medical Center (UNMC) Eppley Cancer Center, an NCI-designated Laboratory Cancer Research Center. Investigators with currently available positions include: **Dr. Pi-Wan Cheng** (Department of Biochemistry/Molecular Biology), nonviral vector-based gene therapy for cystic fibrosis and cancer, regulation of gene expression in glycobiology (two positions); **Dr. David Colcher** (Department of Pathology/Microbiology), tumor immunology, use of radiolabeled monoclonal antibodies for the diagnosis and treatment of cancer (two positions); **Dr. Ming-Fong Lin** (Department of Biochemistry/Molecular Biology), androgens and prostate cancer, tyrosine phosphatase in androgen action; **Dr. James Shull** (Eppley Institute), estrogens and breast cancer, genetics of breast cancer susceptibility, estrogen action (two positions). Additional information on the research of these Investigators can be found at website: <http://www.unmc.edu>. Qualified applicants holding the Ph.D., M.D., or D.V.M. degrees should send a curriculum vitae; representative publications; and names, addresses, and telephone numbers of three references to the attention of the Investigators named above: **University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198. UNMC is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION in insect molecular genetics is available for a recent Ph.D. to investigate insect transposable elements and their development into insect germline transformation vectors. Projects will focus on the *Hermes* element from *Musca domestica* and related elements from other insects and will address regulatory mechanism governing the movement of these elements in heterologous cellular environments (*Insect Biochem. Molec. Biol.* 26: 739-753). Applicants should have a strong background in molecular biology with some knowledge and interest in insect biology. This is an NIH-funded position and is available immediately. Send curriculum vitae and a summary of research experience and interests, and have three letters of reference sent to: **Dr. David O'Brochta, Center for Agricultural Biotechnology, Plant Sciences Building, Room 5141, College Park, MD 20742-4450. FAX: 301-314-9075; e-mail: obrochta@umbi.umd.edu.**

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POSTDOCTORAL ASSOCIATE in molecular neurobiology and neurotoxicology available April 1, 1998, to employ cloned ion channels and neurotransmitter receptors expressed in *Xenopus* oocytes or transformed cell lines to define mechanisms of insecticide action. Ph.D. in a relevant discipline and experience with modern molecular biological techniques required; experience with insect cell culture and transformation is desirable. Send curriculum vitae and names of three references to: **Dr. David M. Soderlund, Department of Entomology, New York State Agricultural Experiment Station, Cornell University, Geneva, NY 14456. E-mail: dms6@cornell.edu.**

NIH-supported **POSTDOCTORAL POSITION** available summer/fall 1998 to perform physiological and biochemical analyses of *E. coli* promoter and RNA polymerase mutants. Persons with experience in prokaryote microbiology and genetics, protein chemistry, and *in vitro* RNA transcription will be given preference. Please send curriculum vitae, pertinent reprints, and three names of references to: **Dr. V. James Hernandez, State University of New York at Buffalo Medical School, Department of Microbiology, 138 Farber Hall, 3435 Main Street, Buffalo, NY 14214. FAX: 716-829-2158.** *The Research Foundation of SUNY is an Equal Opportunity/Affirmative Action Employer.*

UNIVERSITY OF ALABAMA AT BIRMINGHAM

An immediate opening is available for one **POSTDOCTORAL FELLOW** to conduct research in the area of HIV pathogenesis. A strong background in molecular and cell biology is necessary. Applicants should send curriculum vitae and names of three references to: **Grace Aldrovandi, M.D., University of Alabama at Birmingham, 1600 7th Avenue South, ACC, Suite 504, Birmingham, AL 35293.**

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LEUKEMIA AND STEM CELL BIOLOGY EUROPEAN MOLECULAR BIOLOGY LABORATORY

and the
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ANNOUNCEMENT

RESEARCH INQUIRIES INVITED

The Smokeless Tobacco Research Council, Inc. invites inquiries regarding grant applications.

The Council sponsors independent research into questions of smokeless tobacco and health. Research support is through a program of grants-in-aid.

Grant applications are evaluated by the Scientific Advisory Board to the Council and will be judged solely on the basis of scientific merit and relevance.

Deadlines for submission of grant applications are June 30, 1998, for January 1, 1999 funding and December 31, 1998, for July 1, 1999 funding. Address inquiries or requests for applications to:

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AWARD

FUNDS FOR STUDY OF RARE DISEASES

The Blowitz-Ridgeway Foundation's Rare Disease Clinical Research Grant Program of the National Organization for Rare Disorders, Inc. (NORD) announces the availability of funds for clinical research grants in the area of rare disorders. Grants not to exceed \$50,000 per year, or \$100,000 for two years, will be awarded. A one-page letter of intent, curriculum vitae, and brief budget outline due by May 1, 1998, to: Vice President of Patient Services, National Organization for Rare Disorders, Inc., P.O. Box 8923, New Fairfield, CT 06812. Telephone: 203-746-6518; FAX: 203-746-8728.

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Positions will be available in July 1999 for three-year Postdoctoral Fellowships in infectious diseases in the Department of Pediatrics at Columbia University College of Physicians and Surgeons under the direction of Dr. Anne Gershon. This is a comprehensive training program at a major research institution that provides opportunities for Board-eligible/Board-certified M.D.'s and M.D.-Ph.D.'s interested in superb training in clinical pediatric ID and the opportunity to pursue basic or clinical research in preparation for a career in academic medicine. Ongoing research efforts include: pathogenesis and prevention of varicella infection, cystic fibrosis, HIV, and epidemiology. Completion of this program satisfies the requirements for Board certification in Pediatric Infectious Diseases. Interested candidates should contact: Lisa Saiman, M.D., Telephone: 212-305-7935; e-mail: ls5@columbia.edu for further information. Columbia University is an Affirmative Action/Equal Opportunity Employer and is particularly interested in applications from women and members of minority groups.

POSTDOCTORAL FELLOWSHIP IN NEUROIMMUNOLOGY

Applications are invited for a Postdoctoral Fellowship in neuroimmunology with emphasis on study of immune regulation of oligodendrocyte development and myelination. The position is for two years and the salary is commensurate with training and experience. Candidates with a Ph.D. in cell or molecular biology, pharmacology, immunology, or neuroscience may send curriculum vitae to: S. F. Hunter, M.D., Ph.D., Assistant Professor of Neurology, Vanderbilt Stallworth Rehabilitation Hospital, Multiple Sclerosis Laboratory, 2201 Capers Avenue, Room 1222, Nashville, TN 37212. FAX: 615-321-5247.

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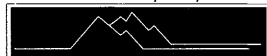
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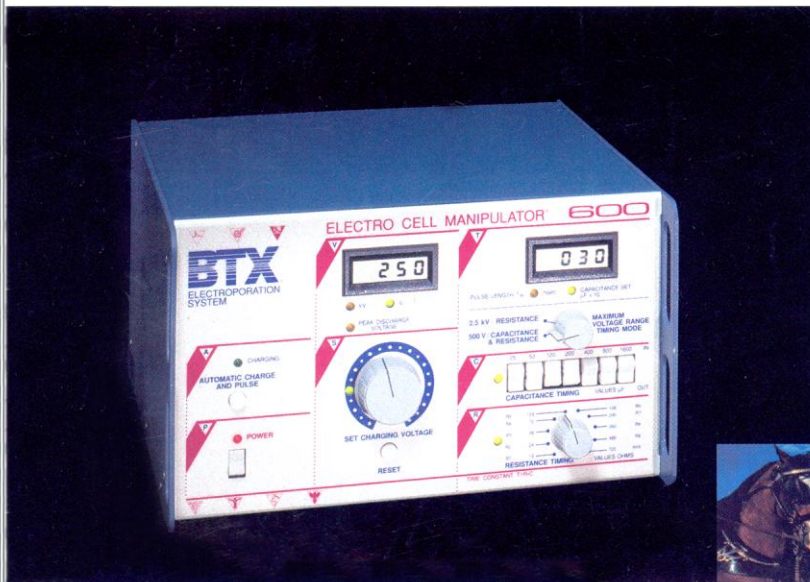
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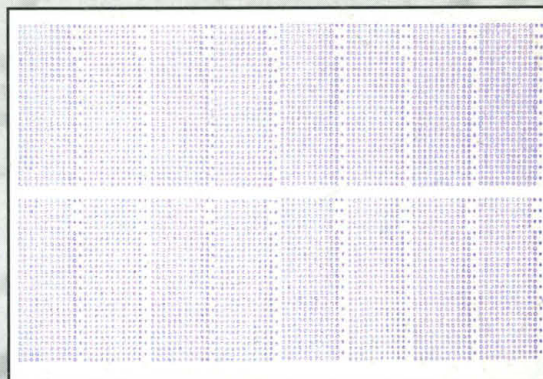
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- Ref 1. Lennon, G., Auffray, C., Polymeropoulos, M., Soares, M.B. (1996) *Genomics* 33, 151-152.
2. <http://www.ncbi.nlm.nih.gov/UniGene/index.html>

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