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KITS FOR APOPTOSIS RESEARCH

Kits are available for assaying caspase-1, -2, -3, -6, -8, and -9 activity, using both fluorometric and colorimetric methods. The assays make use of peptide substrates consisting of the specific peptide cleavage sequence for each caspase, labeled with either AFC (fluoromethyl coumarin) or pNA (p-nitroanilide). Activated caspases in apoptotic cells cleave the synthetic peptide substrates to release free AFC or free pNA, which is then quantified by fluorometer or spectrophotometer. The assays take less than 90 min and can be adapted for 96-well plates.

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tions. The manufacturer can produce them custom-designed for original equipment manufacturer applications.

MICROCOMPUTER RECORDING THERMOMETER

Model TQM 500 microcomputer recording thermometer is accurate to $\pm 0.2^\circ\text{C}$, with a temperature range of -40° to 232°C . This water-resistant thermometer has three operating modes. The Measure mode allows instantaneous measurement of temperature on demand. The Log mode allows automatic recording of data at programmed intervals. The Monitor



mode allows for constant monitoring of temperature. The unit is programmable from its keypad. It has 32K memory and the recorded data can be scrolled on the liquid crystal display for review or downloaded to a printer or personal computer using Windows 3.1 or Windows 95 software.

PIPETTE TIPS FOR SAMPLE PREPARATION

Stylus pipette tips for sample preparation allow the user to desalt a few microliters of femtomole-level protein in less than 60 s. Stylus is a 1- to 10- μl pipette tip with 1 μl of polymeric resin fixed at its end such that there is no dead volume. In operation, it is placed on a standard single- or multichannel pipettor. The sample is

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aspirated and dispensed through the low back-pressure polymer to bind and wash polar molecules or small proteins even in the presence of detergent, buffer salts, or 70 to 90% acetonitrile. Elution is in 1 to 4 μl of water. Stylus is suitable for preparing samples for mass spectroscopy or other analytical techniques.

LITERATURE

FlaskScrubber & SteamScrubber is a catalog on glassware washers. The FlaskScrubber pumps water and detergent through spindles to reach the innermost areas of narrow-necked glassware. The SteamScrubber has stainless steel top and bottom racks that accommodate basket inserts for a wide variety of glassware shapes and sizes, primarily beakers and other wide-mouth glassware.

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Biological Buffers features a line intended for life science researchers and manufacturing facilities, available in an array of sizes for both small- and large-scale use. The buffers come as tablets, pouches, capsules, and liquids and are available for applications including molecular biology, electrophoresis, cell culture, and immunoassays. The publication includes a chart of the buffers' pH ranges and pKa values.

BestCELLers is a catalog with information on popular cells, including standard, fluorescence, and special application types. The brochure also includes information on secondary calibration standards, quartz microplates, fiber optic immersion probes, and cell-cleaning solution.

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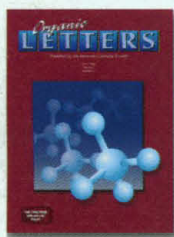
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POSITIONS OPEN

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FACULTY POSITIONS IN MICROBIAL PATHOGENESIS AND IMMUNOLOGY

As part of a long-term plan to strengthen basic research at MCP Hahnemann School of Medicine, the Department of Microbiology and Immunology seeks highly qualified individuals to fill two tenure-track ASSISTANT or ASSOCIATE PROFESSOR positions, one in microbial pathogenesis and one in immunology. For the microbial pathogenesis position, research interests may encompass viral, bacterial, fungal, or parasite pathogenesis, at the molecular, cellular, or organismal level. For the immunology position, applicants with interests in innate or adaptive immunity are encouraged. Applicants should be able to attract significant research funding. In addition, it is expected that the successful candidates will actively contribute to graduate and medical education, and to service to the University community. Please send your résumé, the names of three references, and a letter of intent including research interests to: Richard F. Rest, Ph.D., Department of Microbiology and Immunology, MCP Hahnemann University, 2900 Queen Lane, Philadelphia, PA 19129.

TENURE-TRACK MEDICAL SCHOOL TEACHERS

We seek highly qualified individuals with an M.D., Ph.D., or equivalent degree, to fill two tenure-track positions at the level of ASSISTANT or ASSOCIATE PROFESSOR. The Department of Microbiology and Immunology faculty are dedicated to biomedical research, graduate and medical student education, and service to the University. It is expected that successful applicants will actively contribute to these areas. Candidates must show evidence of excellence as a teacher, with experience as a course Director being desirable. Candidates for the Director of the Medical Microbiology course should demonstrate a broad knowledge of microbiology. Candidates for the Director of the Medical Genetics and Medical Immunology courses must have experience in teaching molecular biology and genetics, and possess general facility with immunologic concepts. Please send your résumé, the names of three references, and a letter of intent including teaching experience, philosophy, and research interests to: Thomas Edlind, Ph.D., Faculty Search Committee, Department of Microbiology and Immunology, MCP Hahnemann University, 2900 Queen Lane, Philadelphia, PA 19129.

ASSISTANT PROFESSOR DEPARTMENT OF NEUROBIOLOGY

The Department of Neurobiology at the University of Alabama at Birmingham (UAB), School of Medicine invites applications for a tenure-track position at the Assistant Professor level. The Department is seeking an outstanding individual who uses a contemporary molecular biological approach to evaluate the development of receptors at the neuromuscular junction and central synapses and the signaling pathways involved. Preference will be given to candidates with established extramural (preferably NIH) funding and likelihood of collaborative interactions with other research programs in the department related to molecular basis of synapse assembly. Attractive facilities and start-up package are available. The Department currently has a strong base of Molecular and Cellular Neurobiologists studying problems of receptor and ion channel function and signal transduction in neurons and glia. Send curriculum vitae and statement of research plans and have three letters of recommendation sent to: Michael J. Friedlander, Ph.D., Professor and Chair, Department of Neurobiology, 1719 6th Avenue South, CIRC 516, University of Alabama at Birmingham, Birmingham, AL 35294-0021 by July 9, 1999. UAB is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

TWO FACULTY POSITIONS MOLECULAR MICROBIOLOGISTS Bacteriology and Parasitology Department of Veterinary Pathobiology University of Missouri College of Veterinary Medicine

The Department of Veterinary Pathobiology plans to fill two full-time tenure-track faculty positions, one in molecular bacteriology and one in molecular parasitology. Candidates will be expected to develop a vigorous, externally funded research program, participate in team teaching of professional students and direct Ph.D. students.

ASSISTANT or ASSOCIATE PROFESSOR. Candidates should have a Doctoral degree (Ph.D. and/or D.V.M. or equivalent) with a minimum of three years of relevant postdoctoral or equivalent experience, significant publications, and evidence of potential for a sustained commitment to high-quality research. Candidates should have expertise in disease pathogenesis with strengths in immunology and/or related areas.

The candidates' research should complement areas of focus in the department. Areas of focus include infectious diseases of laboratory and/or food animals, laboratory animal medicine, molecular biology, and animal molecular genetics. Opportunities are available for participation in the department's established programs with the Department of Molecular Microbiology and Immunology in the School of Medicine: Program in Microbial Pathogenesis and Immunity and/or Advanced Vaccine Research for the Control and Prevention of Disease in Food Animals.

Candidates with advanced training and active research programs are particularly encouraged to apply. The philosophy of the Department is to encourage the development of intra- and interdisciplinary research and teaching teams. Candidates with a Ph.D. and D.V.M. degree are especially desired. The candidates would be expected to be involved in professional student instruction in their specialty. Successful candidates would be located in recently renovated state-of-the-art laboratories and would have the opportunity to be adjunctly appointed in the Department of Molecular Microbiology and Immunology in the School of Medicine.

Salary for this position is competitive and commensurate with experience. Interested candidates should submit a curriculum vitae, statement of research interests and goals, and the names, addresses, and telephone numbers of at least three references to: Microbiologists Search, Department of Veterinary Pathobiology, University of Missouri, Columbia, MO 65211. Noncitizens please include visa status. Screening of applications will start August 1, 1999, and will continue until the positions are filled.

The University of Missouri is an Affirmative Action/Equal Opportunity Employer and encourages applications from females and minorities.

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Sweet Briar College seeks an established Environmental Scientist with a commitment to the liberal arts, to direct a new interdepartmental major in environmental science and to become Chair of a Department of Environmental Studies. The successful applicant will have a demonstrated talent for teaching and research supervision, a track record of externally funded scientific research and publication, and a commitment to connecting the natural sciences with other disciplines. With 3,300 acres of forests, fields, and lakes near the Blue Ridge Mountains, and excellent science facilities, Sweet Briar offers superb opportunities for environmental research. For more information please see website: <http://envirosci.sbc.edu>. Send curriculum vitae, letter of application, two recent publications, and names and addresses of four references, to: Linda Fink, Department of Biology, Sweet Briar College, Sweet Briar, VA 24595. Review of applicants will begin 1 October 1999 and continue until the position is filled. Sweet Briar College is an Equal Opportunity Employer.



POSTDOCTORAL RESEARCH OPPORTUNITIES

*Program in Tissue Remodeling and Cancer
Division of Cell & Molecular Biology
Albany Medical College*

The Division of Cell & Molecular Biology seeks applicants for its postdoctoral research training program in Tissue Remodeling and Cancer. The Albany Medical College offers a unique program in which to study the relationship of extracellular matrix, growth factors and cytokines to cell functions important in tissue remodeling which accompanies wound healing or tumor progression. The College has undergone an expansion including creation of new "State-of-the-art" facilities for conducting molecular and cellular biology studies. The program provides professional growth with the opportunity for postdoctoral career promotion for qualified candidates. Excellent financial compensation and benefits are provided. The following faculty are members of this program:

Paula McKeown-Longo	Fibronectin polymerization in tumor angiogenesis
Paul Higgins	Regulation of gene expression by TGF β /EGF and matrix receptors
Susan LaFlamme	Integrin signaling in cell adhesion
Kevin Pumiglia	VEGF-signal transduction and anti-angiogenic gene therapy
John Jeffrey	Cytokine control of interstitial collagenase expression
Jane Sottile	Cell growth regulation by fibronectin matrix assembly
Terry J. Smith	Hyaluronan biosynthesis: genes and signaling pathways
Mike DiPersio	Integrin modulation of metalloprotease activity

Applicants should submit a curriculum vitae and names of three references to:

Paula J. McKeown-Longo, Ph.D.
Cell & Molecular Biology (165)
Albany Medical College
47 New Scotland Avenue
Albany, NY 12208

Please visit the Cell & Molecular Biology website (http://www.amc.edu/Academic/GradStudies/gradstu-cell_and_molecular_bio.htm) for further details on the research programs of the training faculty.

The Albany Medical College is an Equal Opportunity, Affirmative Action Employer.

GLOBAL OPPORTUNITIES



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National University of Singapore Department of Surgery

Applications are invited from post-doctoral candidates to join the Department of Surgery as a **Research Fellow** in the field of the molecular basis of carcinogenesis.

The prospective candidate should be a molecular biologist with 2 or 3 years post doctoral experience

in an active molecular biology research establishment. The areas of research interests within the department encompass breast, liver, colon and gastric cancers. The successful candidate will join the present team of research fellow, graduate students and technicians. He / She is expected to coordinate and work closely with faculty staff in their basic research projects and to conduct independent research in relevant and related areas of interest. An established track record of scientific publications is essential and a particular research interest in liver cancer is an advantage.

The position is tenable for three years.

Gross monthly emoluments range from S\$3,241.00 – \$6,108.00. The commencing salary will depend on the candidate's qualifications and experience.

Leave and medical benefits will be provided. Other benefits may include: an end-of-contract gratuity, subsidised housing, education allowance for up to three children subject to a maximum of S\$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to

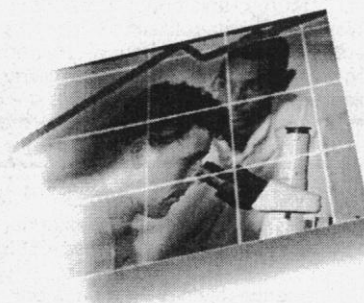
Singapore.

Interested candidates can contact **Associate Professor Steven Chan** (e-mail: surctf@nus.edu.sg) or **Associate Professor C K Leow** (e-mail: surick@nus.edu.sg) for informal discussion about the post.

Visit our web-site at <http://www.nus.edu.sg/NUSinfo/Appoint/res-surg.htm> for links to information on the Department, the University, terms and conditions of service, and the application form.

Only shortlisted candidates will be notified.

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Immunochemist, QC Immunochemistry

In this role, you will develop and optimize immunochemical assays to characterize the active components of products and samples. You will also be responsible for the validation of the assays and for assisting in writing SOPs, validation and other reports. To qualify, you must have a BS in Microbiology, Biology or a related discipline along with 7 years' experience in immunochemical assays for biologicals, production/QC of biologicals, and the preparation of immunochemical reagents, or an MS with 5 years' experience. Excellent verbal and written skills and knowledge of GLP/GMP requirements are essential. **Job Code: OPSCI-6463**

Scientist, QC Immunochemistry

As the ideal candidate, you will be responsible for the critical evaluation of recent assays and the instrumentation for use in the quality control of vaccines, as well as the development of immunochemical assays with precision to characterize the active components of products in development. Other duties include the validation of assays, analysis of data and writing SOPs, validation and other reports. You will be required to have a Ph.D. in Microbiology, Immunology, Biochemistry or Pharmaceutical Sciences, experience in assay development and a strong understanding of GLP/GMP and statistical methods. Expert knowledge of recent developments in immunoassays and instruments and proficient computer, written and verbal communication skills are essential to this role. Additional production/QC experience is desired. **Job Code: OPSCI-6462**

Sr. Supervisor QA, Analytical Testing

In this challenging position, you will work in the validation of assays for new vaccines, overseeing the development of ELISA for quantitation of antigens and ELISA for potency testing of acellular pertussis vaccine. Other principal duties include supervision of routine testing, writing validation reports, SOPs and ensuring GMP and other regulations are in compliance. A BS in Biology or a related discipline with 10 years' experience in manufacturing/QC of biologicals and immunochemical assays, or an MS with 8 years' experience is required, along with excellent written and verbal skills. Previous supervisory experience is preferred. **Job Code: OPSCI-6291**

Scientific Openings, QC

The chosen candidates will perform and document biochemical assays for release, in-process, development and stability testing in compliance with established procedures and cGMPs. Other responsibilities include the development of biochemical, immunochemical and analytical methods, to improve existing assays and perform validation studies. Review documentation of ongoing assays such as maintenance logs, temperature charts and expiration dates of reagents for compliance with cGMPs. A BS is required in Biochemistry, Chemistry, or Biological Science with 4 years' Biochemical, Immunochemical Methodology, or other relevant experience, or an MS with 2 years' is required. Knowledge of cGMPs, safety and FDA regulations is necessary along with excellent written and oral communication skills. **Job Code: OPSCI-6156**

Scientist I, Biology

As the ideal candidate, your responsibilities in the Infectious Disease area will involve the development, automation and performance of high throughput screens and secondary assays. Duties will include the profiling of lead compounds in enzymatic, biochemical and cell based (antiviral activity, cytotoxicity, etc.) assays. You will be required to have a BS degree in Biology and 2 years of prior experience or an MS degree. Basic laboratory skills, computer literacy and excellent communication skills are essential as well as the ability to work as part of a team. Additional experience with virology, tissue culture and computer programming is a plus. **Job Code: OPSCI-5487**

Research Scientist III, Biology

In this role, your responsibilities will include target validation and developing assays in the Infectious Disease area. You will develop assays for the studies of protein-protein and protein-peptide interactions along with gene cloning, site-directed mutagenesis and glycoprotein expression and purification. We require a Ph.D. in Biochemistry or Molecular Biology and a minimum of 2 years of postdoctoral experience. Additional experience in Hepatitis C virus biology, bioinformatics and mammalian two-hybrid assays is a plus. Excellent communication and computer skills are a must. **Job Code: OPSCI-5489**

Scientist I, Microbiology

In this position, you will be involved in the Natural Products Program, working with the fermentation of fungi, actinomycetes, and eubacteria and the genetic manipulation of secondary metabolic pathways. Your responsibilities will include fermentation studies for the Natural Products Library including fermentation scale-up of bioactive isolates and quantitation of bioactive components using analytical techniques such as HPLC, TLC, and bioautography. We require a BS degree with 2+ years' relevant experience or an MS degree. Basic technical skills in microbiology and molecular biology and the ability to work independently are essential. Additional experience with Word and Excel is a plus. **Job Code: OPSCI-5166**

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Research Scientist/Staff Scientist

Ph.D. or M.S. or equivalent with experience. The person selected will have a strong background in physiology/pharmacology with excellent communication skills. Independence, flexibility, and ability to work well with others are essential. Supervisory experience helpful. Expertise in electrocardiography a plus. **Code: EG-JS**

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ENDOWED PROFESSOR, NUTRITION UNIVERSITY OF MISSOURI-COLUMBIA

Candidates are sought for a professorship in nutrition endowed by Ralston Purina at the University of Missouri-Columbia. The Ralston Purina professor will be expected to establish a focused research program relevant

to nutrition of small companion animals. Importantly, this research should be comparative and complement other campus-wide programs. Particular opportunities for collaboration exist in the nationally-recognized Food for the 21st Century program. Research of faculty involved in the nutrition cluster of this interdisciplinary program impacts both human and animal health.

The Ralston Purina professor will contribute to recruitment of an additional faculty position to support nutritional clinical service needs in the Veterinary Medical Teaching Hospital. Other faculty positions may be added over the next three years through a legislative initiative termed *mission enhancement*. An excellent salary and start-up package are available. Substantial discretionary funds will be provided yearly through the endowment. Thus, resources and collaborative opportunities necessary to develop an outstanding program will exist.

Candidates should have an earned doctorate in nutrition, veterinary medicine or a related discipline and qualify at the academic rank of Professor. Applicants should send a letter of intent, curriculum vitae, a summary of research accomplishments and future research directions, and arrange for three letters of reference to be sent to **Dr. Roger A. Sunde, Nutrition Cluster Leader and Chair of the Search Committee**, c/o Ms. Jennifer Winn, W-203 Veterinary Medicine Building, College of Veterinary Medicine, University of Missouri, Columbia, MO 65211, 573-882-3768. Review of applications will begin September 1, 1999 and continue until the position is filled. More information can be found at: <http://www.cvm.missouri.edu/cvm/positions/nutrition.html>

The University of Missouri is an equal opportunity institution and complies with the guidelines of the Americans with Disabilities Act of 1990. If you have special needs as addressed by the ADA and need assistance with this or any portion of the application process, notify us at the above address or telephone number as soon as possible. Reasonable efforts will be made to accommodate your special needs.

NIH Vaccine Research Center

Employment Opportunities

The Vaccine Research Center (VRC) at the National Institutes of Health has been newly established to conduct research that facilitates the development of effective AIDS vaccines. The VRC will open in August 2000 in a new building on the NIH campus in Bethesda, Maryland. Activities in the Center will include 1) basic research to establish mechanisms of inducing long-lasting protective immunity against HIV and other pathogens that present special challenges to vaccine development, 2) the conception, design, and preparation of vaccine candidates for HIV and related viruses, and 3) laboratory analysis, animal testing, and clinical trials of such candidates. The VRC will conduct a comprehensive program of research on the NIH intramural campus and will work with scientists in academic, clinical, and industrial laboratories through a program of national and international collaborations. The VRC will actively seek industrial partners for the development, efficacy testing, and marketing of vaccines and focus the development of new methodologies and training opportunities that will benefit all HIV vaccine researchers. The potential scientific advances, methodologies, and resources will also provide the basis for research on vaccines for other diseases.

To achieve these goals, the VRC is now recruiting outstanding scientists for tenure and tenure track positions in the areas of virology, immunology, and translational research. Though the building will open in August 2000, its activities will start sooner, and support for the laboratories can also begin prior to this date. For each of the opportunities described below, particular consideration will be given to individuals with scientific excellence who are seeking to work in a collegial environment and in close collaboration with one another in an effort to develop and analyze AIDS vaccine candidates. The primary focus of study will be HIV, though applications to other infectious agents and malignancy will also be considered. Established investigators, as well as newly-independent scientists, are sought for these positions. Resources for support of each laboratory, including support personnel, post-doctoral fellows, supplies, and core facilities, will be provided. Applicants must have demonstrated outstanding accomplishments in one or more of the areas listed below.

Positions in Virology

A range of individuals are sought for these positions, whose backgrounds encompass basic aspects of viral infection related to vaccine development, immune responses to viruses, vector development, viral pathogenesis, viral gene regulation and HIV or SIV biology. Please direct inquiries to: Dr. Malcolm Martin, Chief, Laboratory of Molecular Microbiology, Division of Intramural Research, NIAID at (301) 496-4012 or by email: mmartin@niaid.nih.gov.

Positions in Immunology

Scientists are sought who have experience in one or more of the following areas: basic aspects of induction and maintenance of immunologic memory and expression of immune effector functions, the nature of protective immunity to HIV, SIV and/or other pathogens, the structure of key viral epitopes, the dynamics of human immune responses, and the nature and analysis of responses to vaccines. Individuals with experience in theoretical aspects of the interaction of HIV and the immune system and of responses to vaccines will also be considered. The primary focus of study in the VRC will be HIV, though analysis and induction of protective immunity to other infectious agents and malignancies will also be considered. Please direct inquiries to: Dr. William Paul, Chief, Laboratory of Immunology, Division of Intramural Research, NIAID at (301) 496-5046 or by email: wpaul@niaid.nih.gov.

Positions in Clinical and Translational Research

A range of individuals are desired, whose activities might involve quantitation of human immune responses, vector development and characterization, production relevant to vaccination, regulatory issues, and quality control and assurance. Individuals should have experience and interest in development of quantitative assays in immunology or virology, production of material under GMP/GLP conditions or assistance in Phase I clinical evaluation of immunogens. Please direct inquiries to: Dr. Larry Arthur, Director, AIDS Vaccine Development Program, NCI at (301) 846-1408 or by email: arthur@avpaxp1.ncifcrf.gov.

APPLICATION PROCESS: Applicants must be U.S. citizens, resident aliens, or nonresident aliens with or eligible to obtain a valid employment-authorized visa. Salary depends on degree and qualifications. Salary up to \$151,800 per annum. Other incentives may be available. A curriculum vitae, bibliography, three letters of reference, a detailed statement of research interests and selected publications should be submitted to: Ms. Lisa Poindexter-Steed, Office of Human Resources Management, NIAID, Building 31, Room 7A27; 31 Center Drive, MSC 2520, Bethesda, Maryland, 20892-2520. Applicants interested in applying for more than one discipline, must submit a complete package for each and cite the vacancy announcement number and scientific opportunity. The vacancy announcement numbers are: AI-99-079 for virology opportunities; AI-99-080 for immunology opportunities, and AI-99-081 for clinical and translational opportunities. All information provided by applicants will remain confidential and will only be viewed by authorized officials of the NIAID.

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**Postdoctoral Research Opportunities in
T-cell Immunology
DANA-FARBER CANCER INSTITUTE
HARVARD MEDICAL SCHOOL**

Several positions at the postdoctoral level are currently open for studies on T-cell development and function using molecular and/or cellular approaches in the laboratories of Dr. Harvey Cantor. A joint appointment will be held in an appropriate department of the Harvard Medical School. DFCI/HMS offers substantial scientific resources in a stimulating environment with opportunities for advancement. Highly-qualified (M.D., Ph.D., M.D./Ph.D.) applicants should submit a curriculum vitae, bibliography, a brief statement of research interests and the name, address and phone number of three references to:

Harvey Cantor
Department of Cancer Immunology & AIDS
Dana Farber Cancer Institute
44 Binney Street
Boston MA 02115
e-mail: aa@dfci.harvard.edu

DFCI/HMS is an Equal Opportunity / Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

**FACULTY POSITIONS
IN PEDIATRIC DEVELOPMENT BIOLOGY**

Applications are now being accepted for two new tenure-track faculty in Pediatrics at the rank of Assistant or Associate Professor to join a newly formed research group centered on cardiac developmental biology. Investigators focusing on the molecular regulation of lineage determination, cell cycle regulation, and terminal differentiation as they pertain to cardiomyocytes, vascular development, and cardiac innervation are sought. Physician-Scientist at all levels are encouraged to apply. There is particular interest to assemble a group of investigators with complementary systems approaches.

Applicants must possess a Ph.D. and/or M.D. degree and have a record of research productivity and grant support. Successful candidates will have academic appointments in Pediatrics and in a basic science department of the Medical School and are expected to establish a strong externally funded research program and contribute to graduate and medical education. Positions come with generous start up packages.

This recruitment represents an expansion of the Herman B Wells Center, a highly interactive and multi-disciplinary research center with clinical responsibilities at the Riley Hospital for Children. Active programs currently include cardiomyocyte cell cycle regulation, cardiac and vascular development, hematopoiesis and myeloid gene regulation, gene therapy, DNA repair and fetal and neonatal metabolic physiology. Transgenic and gene targeting facilities and a mass spectrometry core facility are available on site.

Applicants should submit a curriculum vitae, summary of research accomplishments and future research plans and the names of at least three references to:

Dr. Loren Field
Chair, Search Committee
Wells Center for Pediatric Research
Riley Hospital for Children
702 Barnhill Drive, Room 2600
Indianapolis, IN 46202
ljfield@iupui.edu

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**Project Director -
PRESSURE CYCLING TECHNOLOGY**

Ph.D. in Molecular Biology or related field with at least 6 years experience in a biotechnology company required. The successful candidate will be responsible for directing the development of new innovative technology using pressure cycling to effectively control molecular activity resulting in the potential inactivation of infectious organisms, extraction of nucleic acids for clinical specimens, antigen-antibody dissociation and other applications. Extensive knowledge of the blood products industry, diagnostics market, and instrumentation design is required. Individual must be highly motivated, ambitious, and have excellent communication (written and oral) and team building skills. Job Code: PCT

**Project Scientist -
MOLECULAR BIOLOGY**

Ph.D. in Molecular Biology or related field with at least 4 years post doctoral experience, preferably in a managerial role. The successful candidate will be responsible for managing and coordinating research and service activities including design of PCR assays and detection formats for infectious diseases, nucleic acid analysis of clinical specimens, and viral and bacterial DNA sequence analysis. Excellent understanding of the principles, techniques and application of molecular methods in human infectious and genetic diseases is a must. Excellent communication and team building skills required. Job Code: MB

We offer excellent compensation, benefits, and working environment. Interested candidates should send a cover letter or letter of interest with their complete CV indicating job code to:

BBi Biotech Research Laboratories, Inc.
217 Perry Parkway • Gaithersburg, MD 20877
Fax: (301) 208-8829
email: tadams@bbii.com or mmanak@bbii.com
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INTELLECTUAL ASSET MANAGER

Cargill is an international leader in the marketing, processing and distribution of agricultural, food, financial and industrial products. We seek an independent thinker to provide support and leadership in identifying, evaluating and resolving various intellectual property issues as well as managing the business' intellectual assets.



The team player we seek will have a minimum of a B.S. in BioChemistry or BioTechnology field with 2-6 years experience. An understanding of intellectual property issues, excellent communication and leadership skills and the ability to leverage resources are also required. The position does require minimal travel.

If you would like to be part of a company that is raising the standard of living worldwide, join Cargill. Interested candidates should send/fax resumes to: Intellectual Asset Manager, Cargill Bioscience, 15305 Minnetonka Blvd., Minnetonka, MN 55345. Fax: 612-742-0477. Equal Opportunity Employer.

ABSTRACT DEADLINE:
July 30, 1999

**The AACR-NCI-EORTC International
Conference on New Drugs in Cancer Therapy**

Molecular Targets and Cancer Therapeutics

Discovery, Development, and Clinical Validation

Washington Hilton and Towers • Washington, DC • November 16-19, 1999

Over the past two decades, the *NCI-EORTC Symposium on New Drugs in Cancer Therapy*, held biennially in Amsterdam, has become the premier meeting on new drug discovery for cancer. Because the rapid pace of discovery in molecular biology and genetics continues to produce so many new targets for cancer therapeutics, it is essential to find new ways to exchange information about the most promising areas of research.

The *American Association for Cancer Research* (AACR) has joined the *National Cancer Institute* (NCI) and the *European Organization for Research and Treatment of Cancer* (EORTC) to create a new forum where clinical investigators and laboratory scientists can discuss the latest findings in this area. These three leading organizations are expanding the Symposium into an annual event that covers state-of-the-art research in drug discovery, development, and clinical validation of new cancer therapeutics.

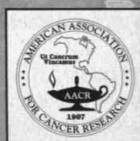
Plenary Sessions

- Biology and Target Selection
- Chemistry (Generation of Diversity)
- Preclinical Development
- Imaging Molecular Targets
- New Opportunities for DNA and Microtubules
- Changing a Concept into a Drug: The Art of Patience

Workshops

- Gene Therapy Vector Designs
- Apoptosis
- New Intracellular and Extracellular Targets
- Prevention Targets
- Signal Transduction
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- and more

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- ☐ Brain-Researcher Prof. Ernst Pöppel,
Center for Human Studies, Munich, Germany

Introduction Dr. Floyd Bloom, Editor-in-Chief *Science*

Moderator Reiner Korbmann, Editor-in-Chief *bild der wissenschaft*

Presentations will be in English

29th June 1999

at 18.00 hr

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
POST-DOCTORAL PROGRAM
National Health and Environmental Effects Research Laboratory

The National Health and Environmental Effects Research Laboratory (NHEERL) of the U.S. Environmental Protection Agency (EPA) is seeking candidates to fill **approximately 18 federal postdoctoral research positions** during the coming year. As one of the national laboratories within the Office of Research and Development (ORD), NHEERL is EPA's focal point for scientific research on the effects of contaminants and environmental stressors on human health and ecosystems. NHEERL utilizes a multi-disciplinary approach to solving research problems. Assimilation and integration of information across environmental disciplines and across multiple levels of biological organizations (from molecular to the whole organism, and from the organism to the ecosystem levels) strengthen analyses of environmental issues. Several of these positions will present developmental opportunities which may be cross-organizational or cross-disciplinary; i.e., within or across NHEERL ecology or health divisions; across lab and human or ecological field studies; and across other national laboratories/centers within ORD or regulatory program offices within EPA.

Because of NHEERL's broad research mission and multi-disciplinary 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., cellular, molecular), physiology, biochemistry, toxicology, environmental sciences, biomedical or chemical engineering, ecology (e.g., aquatic, coastal systems, coral, ecosystem, estuarine, landscape, marine, microbial), ecotoxicology, endocrinology, epidemiology, biostatistics/modeling, geographic information science, geomorphology, geostatistics, genetics, development and reproduction, immunology, pulmonology, microbiology, neurosciences, pharmacology, pharmaceutical sciences, plant physiology, population/community modeling, physical chemistry, physiology, or toxicology.

NHEERL is organized into nine divisions which are located at various geographical locations and specialize in a different field of environmental health or ecology research. Post-doctoral positions to conduct research on environmental health are anticipated for divisions located in Research Triangle Park and Chapel Hill, NC. Post-doctoral 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 post-doctoral positions, please visit the NHEERL Internet site at <http://www.epa.gov/nheerl> beginning **May 14, 1999**.

These positions are excepted service appointments for two to three years, and offer a salary range of **\$33,026 – \$62,260**, commensurate with qualifications. Our goal is to have successful candidates on board before October 1, 1999. The selected candidates will be eligible for a full benefits package, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave. **United States citizens are preferred and will be given first consideration for all positions.** In the absence of qualified U.S. citizens, applications from citizens of countries specified as exceptions to the appropriations act ban on paying non-U.S. citizens may be considered. Further information on Federal employment of non-citizens is available at <http://www.opm.gov/employ/html/citizen.htm>

The filing deadline for these post-doctoral positions is **July 9, 1999**. If you are interested, 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, preferred geographical location(s), and **country of citizenship** to Ms. Dorothy Carr, U.S. Environmental Protection Agency, Human Resources Management Division (MD-29), Research Triangle, NC 27711, Attn: NHEERL Post-Doctoral Program. If you are claiming veterans' preference, please include your **DD-214** with your application package.

If you send your application via Federal Express, address it to Ms. Dorothy Carr, U.S. Environmental Protection Agency, Human Resources Management Division (MD-29), 4201 Building, Suite 105, 79 Alexander Drive, Research Triangle Park, NC 27709, Attn: NHEERL Post-Doctoral Program. You may also submit your application via facsimile (fax) machine to (919) 541-2186; however, applications faxed from a U.S. government fax machine will not be accepted. Applications sent electronically via the Internet or mailed in U.S. government postage-paid envelopes will also **not** receive consideration. Your application materials must be received in the Human Resources Office by **July 9, 1999**.

Questions may be directed to Ms. Carr at (800) 433-9633. After all responses are reviewed, candidates will receive written notice of the status of their applications no later than **September 17, 1999**.

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

Director

Child Health Institute of New Jersey Robert Wood Johnson Medical School

Robert Wood Johnson Medical School of the University of Medicine and Dentistry of New Jersey seeks a Director who will be responsible for leading the recently established Child Health Institute of New Jersey (CHI) in a newly dedicated building on the New Brunswick campus. The focus of CHI will be in developmental biology with particular emphasis on genetics, patterning, cell differentiation, brain and behavior. The broad scope of CHI will be to integrate with other medical school institutes, departments and programs to develop an international center in child health with an emphasis on disease prevention and treatment based on understanding of the interactions of biology and the environment. The Director will play an important role in determining the specific research programs developed at the Institute.

The Director will report directly to the Dean and will have Department Chair equivalent status. The Institute will not provide direct clinical services, but will be contiguous with the Children's Hospital at Robert Wood Johnson University Hospital, the principal academic hospital affiliated with the medical school providing full services for child health. The Institute will provide space for 14 faculty leaders in 44 laboratories with additional core facilities for transgenic animals, imaging, and office, conference and large meeting space suitable for symposia.

Director candidates will be expected to have tenured or tenure equivalent positions, leadership skills in science and administration, a history of successful peer-reviewed grant support and a national and international reputation in developmental biology. Further information about the Child Health Institute can be obtained at www2.umdj.edu/chinjweb.

Candidates should send a letter of interest with curriculum vitae, including references, to **Dr. Aaron J. Shatkin, Chair, Search Committee, Center for Advanced Biotechnology and Medicine, Piscataway, NJ 08854-5638**. UMDNJ is an Affirmative Action/Equal Opportunity Employer, M/F/D/V, and a member of the University Health System of New Jersey. Visit our website at: <http://www.umdj.edu>



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Group Leader Plant Physiology

The Plant Research Group is looking for a Ph.D. or individual with postdoctoral experience in Plant Physiology or Biochemistry to develop methodology for our high-throughput functional genomics platform. We are looking for highly motivated individuals with experience in metabolic biochemistry or plant cell physiology to establish methods for high through-put plant analysis. The individual will be expected to interact with the Biochemistry group in developing a metabolic profiling platform and to supervise Master's level personnel. Experience with spectroscopic methods and artificial plant growth systems is an advantage. Excellent written and oral communication skills are essential. Position is located in Research Triangle Park, NC. **Job#SCI/JUNE/160P.**

Successful candidates will be offered a competitive salary and benefits package commensurate with experience, stock options as well as an exciting team environment with emphasis on achievement and career development. For consideration, PLEASE INCLUDE THE JOB NUMBER on your cover sheet and submit a resume by AUGUST 2, 1999 to: **Human Resources, Paradigm Genetics, Inc., P.O. Box 14528, RTP, NC 27709; or E-mail: resumes@paragen.com (MS Word or RTF only).** No faxed resumes will be accepted. EOE www.paragen.com

Marine Resource Management and Policy Senior (Associate or Full Professor) and Entry Level (Assistant Professor) Positions

Virginia Institute of Marine Science/
School of Marine Science (VIMS/SMS)
The College of William and Mary

Two faculty members are sought to enhance existing expertise in coastal resource management, law, economics, and public policy. The candidate filling the senior position will provide leadership to a multidisciplinary faculty. Both incumbents will be involved with faculty in Law, Public Policy, Business, and Arts & Sciences through the Environmental Sciences and Policy Cluster of the College of William & Mary, and will be expected to interact with other departments at VIMS/SMS.

The incumbents must hold a Ph.D. degree, and have strong teaching and advisory interests and develop active externally-funded research programs. Existing (senior) or potential for (entry level) international recognition for scholarly activity is desired in areas such as, but not limited to, resource policy, economics or management, fisheries or ecological economics, conservation biology, restoration ecology, or natural resource damage assessment. More detail is provided at www.vims.edu.

Completed application materials should address the specifications above, and include a current curriculum vitae and names of three (entry level) or five (senior) references for use by the search committee. Materials should be sent to:

**Dr. Michael C. Newman, Chair
Search Committee — Management & Policy
Virginia Institute of Marine Science, P.O. Box 1346
Gloucester Point, Virginia 23062-1346
E-mail: Newman@vims.edu
FAX: (804) 684-7186**

The search will continue until the positions are filled but to ensure full consideration, completed application materials should be received on or before July 23, 1999. *The College of William & Mary is an Equal Opportunity, Affirmative Action Employer.* Members of underrepresented groups (including people of color, persons with disabilities, Vietnam veterans, and women) are strongly encouraged to apply.



The AAAS International Scientific Cooperation Award, presented at the AAAS Annual

AAAS Meeting in February 2000 in Washington, D.C. given to an individual or small group working together in the scientific or engineering community who makes outstanding contributions to further international cooperation in science or engineering. The award is open to all regardless of nationality or citizenship. Nominees must be living at the time of their nomination. The recipient receives US \$2500 award, a commemorative plaque, complimentary registration, and reimbursement for reasonable travel and hotel expenses. Nominations should be typed and include the following information: nominator's name, address, phone number; nominee's name and title, institutional affiliation, address, phone number; two letters of support; curriculum vitae (3 page maximum); a summary statement of actions that forms the basis for the nomination (250 words); a longer detailed statement of the actions for which the candidate is nominated; any documentation (books, articles, or other materials) illuminating the significance of the nominee's achievement may also be submitted. All materials become the property of AAAS. Completed nominations should be submitted to: Linda Stroud, Directorate for International Programs, American Association for the Advancement of Science, 1200 New York Avenue, N.W., Washington, D.C. 20005, U.S.A. FAX: (202) 289-4958. All materials must be received by August 1, 1999.



MAYO CLINIC FACULTY POSITIONS IN TRANSPLANTATION BIOLOGY

Mayo Clinic is undertaking an expanded research initiative in transplantation biology. One objective of this initiative is to assemble a faculty of independent investigators who can focus diverse scientific interests on the biological and immunological hurdles to transplantation and on the development of novel approaches to overcoming those hurdles. Four scientists of the highest caliber with expertise in cellular biology, molecular or structural biology, biochemistry, immunology or virology who might want to contribute to such an integrated program are sought. The basic science research program will include opportunities to interact with clinical and pre-clinical programs. To inquire, send a cover letter describing your research interests, a curriculum vitae and the names of three references to:

Jeffrey L. Platt, M.D.
Mayo Foundation
Medical Sciences Building
Room 2-66
Rochester, MN 55905

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TENURE TRACK POSITIONS

(Two available)
Epidemiology-Emerging &
Tropical Infectious Diseases

The Center for Tropical Diseases, the Department of Microbiology and Immunology, and the Department of Preventive Medicine and Community Health at The University of Texas Medical Branch jointly invite applications for two tenure track faculty positions at the Assistant or Associate Professor level.

Successful applicants will hold a Ph.D., M.D., or equivalent degree with formal training and demonstrated interest in the epidemiology of emerging/re-emerging infectious diseases. Particular interest exists in candidates who wish to focus their research on the epidemiology of viral hepatitis C or other chronic viral infections in the United States and/or in the epidemiology of emerging infectious diseases in the United States and tropical diseases in other nations. UTMB offers an environment that is rich in opportunities for productive interactions with other scientists who study the basic biology and pathogenesis of these infectious diseases. The successful candidate will be expected to develop independent research programs and to participate in the education of medical students, residents and graduate students and fellows in the biomedical sciences.

Please send curriculum vitae and the names of three references to: Robert E. Shope, M.D., Department of Pathology, 301 University Blvd., Galveston, TX 77555-0609. UTMB is an equal opportunity, affirmative action employer M/F/D/V. UTMB hires only individuals authorized to work in the United States.

UTMB

The University of Texas
Medical Branch at Galveston

POSTDOCTORAL RESEARCH

The Wistar Institute, an independent research organization located on the University of Pennsylvania campus, currently seeks postdoctoral applicants in the following areas:

Vaccines: A position focusing on the development of optimized DNA and viral recombinant vaccines for cancer and HIV in mouse models. Candidates must possess a M.D. or Ph.D. in Immunology or Virology, or from a related discipline such as Pharmacology or Genetics. **Reply to Dr. Hildegund Ertl.**

Regulation of IL-12: Immediate opening for a postdoctoral fellow to investigate the molecular biology of IL-12 regulation (*Adv. Immunol.* 70:83, 1998; *J. Exp. Med.* 183:147, 1996) by TNF- α in HIV-1 infection. Molecular biology and virology experience preferred. **Reply to Dr. Giorgio Trinchieri.**

Transcriptional Regulation and Cancer: Investigation of the mechanism of cellular transformation by the oncogenic transcription factor c-Myc. Studies will focus on the role of the essential cofactor TRRAP. An understanding of the function of TRRAP in recruitment of multi-protein transcriptional regulatory complexes will be gained utilizing biochemical and genetic approaches. **Reply to Dr. Steven B. McMahon.**

Molecular Biology: Molecular biologist wanted to join our cancer vaccine program to clone cancer B and T cell antigens. Candidate should have experience in library construction and screening and antigen cloning. **Reply to Dr. Dorothee Herlyn.**

Molecular Progression of Malignant Glioma: Position available starting immediately to study the molecular progression of brain tumors with an emphasis on the role of the PTEN tumor suppressor gene in controlling tumor growth and invasion of astrocytic gliomas. Ph.D. in biological sciences with strong background/experience in molecular biology. Cell biology and biochemistry training is desired. Experience in animal tumor models is a plus. **Reply to Dr. Frank Furnari, Albert R. Taxin Brain Tumor Research Center.**

Structural Virology: Postdoctoral Researcher. Structural studies on viruses. Crystallography, EM and computational methods are being used to tackle large viral assemblies such as human adenovirus. An interest in these methods and experience in molecular biology and protein expression are highly desirable. **Reply to Dr. Roger M. Burnett.**

Cell Cycle Checkpoints: Postdoctoral Researcher to characterize the function of novel cell cycle checkpoint genes. One group of genes are involved in DNA damage checkpoint control, while a second group of genes function as mitotic checkpoints. **Reply to Dr. Thanos Halazonetis.**

Nuclear Functions: Investigate at a cell and molecular level the concept of homeostatic control by protein segregation in the nucleus. Also, immediate early interaction of viruses and host nucleus with the aim to interrupt transcription at the virus deposition site in the nucleus (see *BioEssays* 20:660-667, 1998). Good background in molecular and cell biological techniques essential. **Reply to Dr. Gerd Maul.**

Cytokine Adjuvants and Antigen Presentation: Visiting Scientist or Postdoctoral Fellow position available to investigate cytokine adjuvancy for HIV-1 vaccine development; emphasis on regulatory mechanisms of antigen presentation (*J. Immunol.* 162:4606, 1999). Experience with cellular immunology and murine model systems preferred. **Reply to Dr. L. J. Montaner.**

Transcriptional Pathogenesis of Cancer: Postdoctoral positions are available for individuals interested in mechanisms of gene silencing, structure-function studies of transcription repressors and mechanisms of tumor suppressor function. Projects include: 1) Analysis of the KRAB domain corepressor, KAP-1 (*Genes Dev.* 10:2067-2078, 1996; *Mol. Cell. Biol.* 19:4366-4378, 1999); 2) Engineering repressors which inhibit malignant conversion and growth; 3) Studies on BAP1, a tumor suppressor which regulates BRCA1 (*Oncogene* 16:1097-1112, 1998). Experience in transcription factor biochemistry, chromatin structure analysis and DNA repair is desired, but all strong candidates will be considered. **Reply to Dr. Frank Rauscher.**

Chromatin Regulation and DNA Repair: Postdoctoral Researcher. Biochemical and molecular characterization of novel chromatin remodeling complexes in human cells using nucleosome disruption assays. We are also characterizing the connection of the transcription machinery to that of DNA repair, with specific emphasis on Cockayne syndrome (CS) and the BRCA1 and BRCA2 proteins. *Nature* 374:283 (1995); and *Nature* 381:86 (1996); *JBC* 274:13162 (1999). Motivated scientists in any discipline of biological sciences, with experience in molecular biological techniques and protein purification preferred. **Reply to Dr. Ramin Shiekhattar.**

Successful candidates will have a Ph.D. and/or M.D./Ph.D. in the biological sciences. Please send a C.V. and three letters of reference to the **Human Resources Dept., Attn: (appropriate faculty member), THE WISTAR INSTITUTE, 3601 Spruce Street, Philadelphia, PA 19104.** EOE/AA/M/F/D/V.



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THE NATIONAL CANCER
INSTITUTE IS AN EQUAL
OPPORTUNITY EMPLOYER.

Be an NCI Cancer Prevention Fellow

THE NATIONAL CANCER INSTITUTE (NCI) sponsors the Cancer Prevention Fellowship Program (CPFP). Its purpose is to train individuals from a multiplicity of health and biomedical science disciplines in the field of cancer prevention and control.

What will I get out of the program?

- Master of Public Health degree
- Cancer Prevention and Control Summer Academic Course
- Mentored research at the NCI
- Brief field assignments at other institutions

Research opportunities include chemoprevention, clinical epidemiology, diet, nutrition and other lifestyle factor studies, evidence-based decisionmaking, intervention studies, outcomes research, special populations, screening and early detection (including genetic and other biomarkers), smoking cessation, social and behavioral

research, statistical and epidemiological methodology, and translational research.

Am I eligible?

You must have a doctorate degree (MD, DDS, DO, PhD or equivalent) from a U.S., territorial or Canadian institution. Foreign medical graduates must have current USMLE or ECFMG certification. You must also be either a citizen or resident alien of the U.S. eligible for citizenship within 4 years.

How long is the program?

Fellows are accepted for up to 5 years of training beginning in July.

When are applications due?

Applications are due September 1, 1999 for entry into the program the following July 1, 2000.

How do I apply?

To receive a catalog*, contact:

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

*Please provide home address and where you heard about the program.

Further inquiries:

Mrs. Barbara Redding
(301) 496-8640
Fax (301) 402-4863
E-mail br24v@nih.gov

Visit our Web site at:

<http://dcp.nci.nih.gov/cpfp/>

DIRECTOR, DIVISION OF INTRAMURAL RESEARCH (Scientific Director) NATIONAL INSTITUTE OF CHILD HEALTH AND HUMAN DEVELOPMENT (NICHD)

THE POSITION: The Division of Intramural Research (DIR) is broadly concerned with the biological and neurobiological, medical and behavioral aspects of normal and abnormal human development. In addition to five major clinical research and training programs in the areas of genetics, endocrinology, and maternal-fetal medicine, a diversity of developmental models are under study in eighteen fundamental research Laboratories and Branches. The Scientific Director serves as the principal advisor to the Director, NICHD, concerning all ongoing and projected intramural research programs conducted in the laboratories of the Institute and is fully responsible for broad decisions concerning program planning, budget and policy formulation and budget allocation to the laboratories. He/she represents the NICHD in discussions of NIH-wide intramural policies and programs, and serves as a vital member of the senior staff of the Institute. In addition to the managerial/administrative responsibilities outlined above, the Scientific Director may carry out his/her own research program. Resources commensurate with the proposed program will be provided.

THE CHALLENGE: To provide strong and effective leadership in the overall scientific management of an innovative research program involving 18 basic research laboratories, 5 of which have clinical activities, with a combined budget of approximately \$94 million and a staff of over 1000 persons. The NICHD's current research emphasis is on the cellular and molecular developmental mechanisms and interactions that guide a single fertilized egg cell through its development into a multicellular, highly organized and specialized adult organism.

THE IDEAL CANDIDATE: Will have demonstrated scientific leadership and research experience in both basic and clinical research programs of national and international standing in an area relevant to the area of child health and human development. Applicants must have an M.D., and/or Ph.D degree.

SALARY: The Scientific Director will be appointed at a salary commensurate with the candidate's background and experience.

HOW TO APPLY: Applicants should submit a current Curriculum Vitae and Bibliography to: Dr. Story Landis, Scientific Director, NINDS, c/o National Institute of Child Health and Human Development, 9000 Rockville Pike, Building 31, Room 2A-25, Bethesda, Maryland 20892. For further information, please contact Ms. Janice Balin on (301) 435-3416 or send e-mail to jb35v@nih.gov.

APPLICATIONS MUST BE POSTMARKED BY AUGUST 16, 1999

NIH is an Equal Opportunity Employer



FACULTY POSITIONS MICROBIOLOGY AND IMMUNOLOGY

The Department of Microbiology and Immunology, College of Medicine, University of Kentucky seeks candidates for two full-time tenure-track faculty positions at the **ASSOCIATE** and/or **ASSISTANT PROFESSOR** level in molecular viral pathogenesis, viral-host interactions, host immune response to infections, immunology, or autoimmunity.

Applicants should have a Ph.D. and/or M.D., or equivalent degree, and postdoctoral experience. Successful candidates are expected to develop/maintain innovative, externally funded research programs as well as participate in graduate and medical student teaching. This is an excellent opportunity to join an established group of faculty with a strong predoctoral and postdoctoral training program and research programs in microbial pathogenesis, eukaryotic molecular biology, molecular and cellular immunology, molecular virology, and tumor biology.

Excellent start-up funds, state-funded salary commensurate with experience, and modern research facilities will be provided. Applications should include curriculum vitae, representative reprints, a summary of past experience, a statement regarding research interests and future plans, as well as three letters of recommendation. All material should be sent to: **Dr. Jerold Woodward, Chair, Faculty Search Committee, Department of Microbiology and Immunology, MS415 Medical Center, University of Kentucky, Lexington, KY 40536-0298. Telephone: 800-462-5257; FAX: 606-257-8994.** *The University of Kentucky is an Equal Opportunity/Affirmative Action Employer and has an affirmative duty to reasonably accommodate otherwise qualified individuals with a disability.*

RESEARCH ASSISTANT PROFESSOR

A non-tenure-track faculty position is open in the Department of Pathology at the University of Virginia Health Sciences Center for an individual who is interested in research on cell-signaling pathways that regulate cellular motility. Expertise in mammalian cell and molecular biology is necessary. Familiarity with integrins, GPI-anchored proteins, and/or receptors in the LDL receptor family is helpful. Candidates should have an M.D. and/or Ph.D. degree, at least two years of postdoctoral experience, a relevant publication record, and strong speaking and writing skills. The Investigator who fills this position will be expected to independently execute studies, train new students and Fellows, and participate in the management of an established laboratory. Candidates should send a letter of interest that clearly describes relevant experience, a curriculum vitae, and names of three references to: **Dr. S. L. Gonias, University of Virginia Department of Pathology, Box 214, Charlottesville, VA 22908.** *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

CHEMISTRY FACULTY TENURE-TRACK Massachusetts Institute of Technology Department of Chemistry

The Department of Chemistry invites applications for a tenure-track position in inorganic chemistry. The level of appointment is at the rank of **ASSISTANT PROFESSOR**. Outstanding individuals with a strong commitment to research and teaching are encouraged to apply by arranging to have a curriculum vitae, a brief description of research plans, and three letters of recommendation sent to: **Professor Stephen J. Lippard, Department of Chemistry, 18-399, Massachusetts Institute of Technology, Cambridge, MA 02139-4307** by October 1, 1999.

MIT is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women.

ASSISTANT OR ASSOCIATE PROFESSOR LOW-TEMPERATURE GEOCHEMISTRY

The Graduate School of Oceanography (GSO) of the University of Rhode Island (URI) invites applications for a calendar-year, tenure-track faculty position in low-temperature marine geochemistry with eight months of state support per year.

The faculty member will be expected to establish and carry out an externally funded research program in low-temperature marine geochemistry. The faculty member will also be expected to teach graduate courses in low-temperature geochemistry (such as marine biogeochemical cycles, isotope geochemistry, or chemical paleoceanography), and to team-teach/mentor first-year graduate students and undergraduates in GSO-related programs.

For the rank of Assistant Professor, the successful applicant must possess (1) strong skills in low-temperature marine geochemistry, (2) a Ph.D. in oceanography, geology, or a related field prior to hiring, (3) a strong research record or the potential for developing an externally funded research program in low-temperature marine geochemistry, (4) the ability to advise graduate students and to teach graduate courses on low-temperature geochemistry and related topics, and (5) research and teaching strengths that complement existing GSO programs in paleoceanography, earth history, and organic, trace-element, and radionuclide geochemistry. For the rank of Associate Professor, the candidate must meet the above criteria and also demonstrate a strong record of independent-funded research and publication with international recognition.

Preference may be given to applicants that meet one or more of the following criteria: (1) a research focus on light stable isotopes, (2) a research emphasis on processes that leave an identifiable marine geologic record, (3) a successful record of publications and/or funded research, (4) teaching experience, (5) postdoctoral research experience, and (6) potential for developing an ocean-going research program.

Review of applications will begin on July 9, 1999, and will continue until the position is filled.

Please submit a curriculum vitae, the names and addresses of four references, and a summary of research interests to: **Steven D'Hondt, Search Committee Chair, Log #091260, University of Rhode Island, P.O. Box G, Kingston, RI 02881.**

The University of Rhode Island is an Equal Opportunity/Affirmative Action Employer and is committed to increasing the diversity of its faculty, staff, and students. Persons from underrepresented groups are encouraged to apply.

ASSOCIATE DEAN FOR RESEARCH

The College of Veterinary Medicine (CVM) at Kansas State University is seeking an Associate Dean for Research and Graduate Affairs. The successful candidate will hold a tenured position in one of the academic Departments of the CVM and will have the opportunity to continue their research program, if desired. We seek a dynamic and creative individual to provide leadership in the development of research goals and policies, to coordinate and facilitate collaborative research activities within the College, and to promote and represent the College's research programs to funding agencies. The Associate Dean will also work with the graduate programs within the College to promote graduate education opportunities and to develop interdisciplinary research training programs. Qualifications: a Doctoral degree or equivalent, excellent administrative and communication skills, and an outstanding record of scholarship, research productivity, and research funding history. To apply, submit a letter of application describing your interest, your curriculum vitae, and names and addresses of three references to: **Dr. Harish C. Minocha, Chair, Associate Dean Search Committee, c/o Office of the Dean, College of Veterinary Medicine, Kansas State University, Manhattan, KS 66506.** Review of applications will begin on September 1, 1999, and continue until the position is filled. For further information, visit our website: <http://vet.ksu.edu/dean/research.htm>. *Kansas State University is an Equal Opportunity Employer.*



ASSISTANT DIRECTOR. Biotechnology Center. Responsible for oversight and direction of a broad education program at public school, university, workshop, and public education levels, including Biotechnology Workshops for Professionals®. Outreach program includes newsletter and industry relations. Supervise a staff of three people. Other responsibilities include working with biotechnology educators and biotechnology companies, and pursuing outside funding for education and outreach projects.

Required qualifications for this position are a Ph.D., preferably in a life science discipline, and significant experience in either university teaching/research and/or industrial biotechnology. Persuasive writing and speaking skills are essential. The successful applicant will be a leader, have good interpersonal communication and organizational abilities, and be a successful initiator of projects with demonstrated follow-through. Send letter of application, résumé, and the names and telephone numbers of three references to: **Dr. William H. Scouten, Director, Utah State University Biotechnology Center, 4700 Old Main Hill, Logan, UT 84322-4700. FAX: 435-797-2766; e-mail: wscouten@csfcs1.usu.edu.** For more information, see website: <http://personnel.usu.edu>.

Review of applications will begin July 26, 1999, and the position will remain open until filled. *Utah State University is an Equal Opportunity/Affirmative Action Employer and encourages nominations of, and applications from, women and minority candidates.*

ASSISTANT/ASSOCIATE PROFESSOR MASS SPECTROMETRY HARVARD MEDICAL SCHOOL

Harvard Medical School invites well-qualified applicants for a tenure-track position at the Assistant or Associate Professor level with research interests in the field of mass spectrometry and proteomics. The successful candidate will be expected to develop his/her own independent research program and to embrace the challenge of integrating technology development in mass spectrometry with collaborative biomedical research by serving as Director of a newly established Mass Spectrometry Core Facility. The appointing basic science department will depend on the area of disciplinary expertise of the candidate.

Applicants should possess a Ph.D. or M.D. degree and have at least three years of postdoctoral experience that includes demonstrated excellence and innovation in the application of mass spectrometry to complex biological problems. Applicants should submit curriculum vitae, selected reprints, a short summary of research interests, and the names and addresses of four references to:

**Dr. Susanne E. Churchill
Chair, Search Committee
Associate Dean for Research
Harvard Medical School
25 Shattuck Street
Boston, MA 02115**

Harvard Medical School is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

YALE UNIVERSITY

The Department of Electrical Engineering invites applications for a junior faculty position in the broad area of computer engineering. Applicants must have a proven record of innovative research and a commitment to teaching. Please send résumé and a list of five references to: **Professor Juozas Vaisnys, Chair, Computer Engineering Search Committee, Department of Electrical Engineering, Yale University, P.O. Box 208284, New Haven, CT 06520-8284.** Applications must be received by September 30, 1999. *Yale University is an Equal Opportunity/Affirmative Action Employer.*



Postdoctoral Fellowship at NIH HIV Research

A postdoctoral position is available for molecular studies on replication of HIV and related retroviruses. Research projects include the role of host and viral proteins, such as the nucleocapsid protein, in reverse transcription; functional analysis of reverse transcriptase; and investigation of virus assembly. Studies are performed with model systems and HIV-infected cells. Applicants should have a strong background in molecular biology and either nucleic acid biochemistry or virology and less than five years of postdoctoral experience. Please send a curriculum vitae, bibliography, and the names and addresses of three references to:

**Dr. Judith G. Levin, Chief
Section on Viral Gene Regulation
Laboratory of Molecular Genetics
NICHD, Building 6B, Room 216, NIH
Bethesda, MD 20892
Fax: (301) 496-0243
Email: judith_levin@nih.gov
Website: <http://dir.nichd.nih.gov/lmg/svgr/index.htm>**

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QUINNIPIAC COLLEGE

ASSISTANT PROFESSOR OF CHEMISTRY

Quinnipiac College is a private, coeducational, non-sectarian institution located in Hamden, Connecticut, 90 minutes north of New York City and 2 hours from Boston. The College has 250 full-time faculty, and enrolls nearly 4,000 full-time undergraduate and 2,000 graduate students in more than 48 programs of study in Business, Health Sciences, Law, Liberal Arts, Education and Communications. Quinnipiac consistently ranks among the top northern regional universities in *US News and World Report's America's Best Colleges*.

We are seeking a full-time faculty member in the Department of Chemistry and Physical Sciences. This tenure track position will be available for the Fall 2000 semester. Teaching duties will be primarily in the area of general chemistry for health sciences majors, introductory organic chemistry, as well as core-curriculum general sciences courses. In addition, the successful candidate will teach upper level courses relevant to his/her strengths as required by the Department and will be expected to assist in the maintenance of some laboratory equipment.

To qualify, you must have a Ph.D. degree in physical organic chemistry and teaching experience. Preference will be given to candidates with competencies helpful to a department actively pursuing ACS accreditation, having knowledge of FTIR spectrophotometry, NMR, and computer applications to chemistry ability. A strong commitment to undergraduate teaching with a demonstrated commitment to curriculum development and the ability to plan and direct appropriate undergraduate research for chemistry majors is essential.

Qualified candidates should send curriculum vitae, transcripts and three letters of reference to: Albert Notation, Ph.D., Chairman, Department of Chemistry and Physical Sciences, Quinnipiac College, Hamden, CT 06518. Salary and rank commensurate with experience. The review of all applications will begin on October 1, 1999 and the search will continue until the position is filled.

Please visit our web site at: www.quinnipiac.edu

Quinnipiac College has a strong commitment to the principles and practices of diversity throughout the College community. Women, minorities and individuals with disabilities are invited and encouraged to consider this opportunity and to apply.

GLOBAL OPPORTUNITIES

Professor of Neuroscience Institute of Medical Science University of Tokyo (IMSUT)

Position: IMSUT is seeking applications for a position of a professor of a new department for neuroscience.

The laboratory will open early in 2000 for the study of molecular mechanism of a higher brain function using slice tissue culture and various signaling techniques. Candidates are requested to have a deep knowledge in intracellular signal transduction, cytokine signaling, and/or neural plasticity. Applicants must have a Ph.D. and/or the equivalent degree and are encouraged from around the world, but the person will be required to work at IMSUT full time.

Applicants should submit a proposed project (not more than 1000 words), along with a full curriculum vitae listing all publications (with full authors), and the name, address and telephone number of three referees. Deadline: October 31, 1999.

Mail to:

**Director: Dr. Ken-ichi Arai
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639
Japan
fax: +81-3-5449-5401**

*If you send the application by mail, please denote
"Applications for Dept. Neuroscience" in red.*

Postdoctoral position Gene Therapy

An Intramural Research Training Award is available immediately for a Ph.D. or M.D. to investigate the use of gene therapy in the treatment of diseases of the eye and to study the cell biology of chronic degeneration diseases of the eye. The position will offer the opportunity to study the use of various viral and non-viral vector delivery systems and the study and treatment of various models of retinal degeneration. A background in molecular biology is required. Prior experience in the study of apoptosis and cell culture is desirable. Candidates should have a Ph.D. or M.D. with less than 5 years of postdoctoral experience and must be either a U.S. citizen or permanent resident. Salary range is from \$27,500 - \$38,000 depending on postdoctoral experience. A curriculum vitae and the names of three references should be sent to:

**Karl G. Csaky, M.D., Ph.D.
National Eye Institute
National Institutes of Health
Laboratory of Immunology
Building 10 Room10N112
Bethesda, Maryland 20892-1857
E-mail: kcsaky@helix.nih.gov
Telephone: 301-402-0896
Fax: 301-480-1122**

**Deadline date for receipt of applications is
August 15, 1999.**

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

POSITIONS OPEN

FACULTY POSITIONS IN MOLECULAR BIOLOGY

The Department of Medical Biochemistry (in the process of changing to Molecular and Cellular Biochemistry) of The Ohio State University College of Medicine invites applications for tenure-track positions at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR** as part of a major expansion in molecular biology. The applicants should have a minimum of three years of postdoctoral experience in eukaryotic molecular biology/molecular genetics backed by publications in established journals and ability to generate research support. Preference will be given to candidates with expertise in the molecular aspects of disease processes. The positions are available immediately. We have already recruited outstanding faculty in this area.

The department has established strong alliances with the Biotechnology Center, Heart and Lung Institute, the Comprehensive Cancer Center on campus, and the Cleveland Clinic Research Foundation. Columbus has been ranked by *Newsweek* as one of the country's best places to live and work. The faculty will have access to graduate students from a large pool of well-organized interdepartmental graduate programs. A very attractive start-up package including modern laboratory space will be available to the successful candidates.

Applicants should submit a curriculum vitae, selected reprints, a description of research interests and goals, a history of past and present grant support (applicable to Associate Professor's rank) and the names, addresses, and telephone/FAX numbers of three references to:

**Chair, Faculty Search Committee
The Ohio State University
Department of Medical Biochemistry
333 Hamilton Hall
1645 Neil Avenue
Columbus, OH 43210-1218**

The Search Committee will begin reviewing applications on August 2, 1999.

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

ASSISTANT PROFESSOR OF MICROBIOLOGY, MOLECULAR BIOLOGY, AND BIOCHEMISTRY

Academic year (nine-month) tenure-track position at the University of Idaho to begin by January 1, 2000. We are interested in candidates at the Assistant Professor level, capable of establishing a nationally competitive program in environmental microbiology, microbial pathogenesis/immunology, food safety, microbial or molecular genetics, plant or microbial physiology, developmental biology, or biochemistry. The department is particularly interested in the areas of eukaryotic developmental or cell biology, membranes and signal transduction, host-parasite interactions, or microbial molecular ecology. The successful candidate must demonstrate the ability to communicate effectively and will be responsible for a one-semester undergraduate course taught each year, and a graduate-level course in his/her area of expertise taught in alternate years. Requires Ph.D. in microbiology, biochemistry, or a related field, postdoctoral experience, and documented research abilities. Send letter outlining research and teaching interests and philosophy, curriculum vitae, copies of two significant publications, and three letters of reference to: **Dr. Don L. Crawford, Chair, Search Committee, Department of Microbiology, Molecular Biology, and Biochemistry, University of Idaho, Moscow, ID 83844-3052. FAX: 208-885-6518; Telephone: 208-885-7966; e-mail: donc@uidaho.edu.** Screening will begin on July 16, 1999. Applications will be accepted until an acceptable candidate is found. For more information see the departmental World Wide Web site at [website: http://www.uidaho.edu/micro_biology](http://www.uidaho.edu/micro_biology).

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

POSITIONS OPEN

Utah State UNIVERSITY

The Utah State University Biotechnology Center is seeking a **SUPERVISOR** for its Antibody Laboratory. Responsibilities include all aspects of hybridoma development, polyclonal antibody production, immunoassay development, antibody purification, help with workshops and courses, and efficient laboratory operation (cost accounting, client billing, client relations, equipment maintenance, record keeping, etc.). For position requirements see Employment Opportunities at [website: http://personnel.usu.edu](http://personnel.usu.edu) (Position no. 3-130). Review of applications will begin mid-July 1999. Please send letter of application, résumé, and three references to: **Dr. Tom Grover, 4700 Old Main Hill, Logan, UT 84322-4700. FAX: 435-797-2766; e-mail: radial@cc.usu.edu.** *Affirmative Action/Equal Opportunity Employer.*

GEOLOGICAL OCEANOGRAPHER RESEARCH—OCEAN SCIENCES UNIVERSITY OF DELAWARE

The Graduate College of Marine Studies (CMS) at the University of Delaware is seeking the first of two positions in geological oceanography, at least one of which will be at a junior level. In particular, we seek faculty expertise in the following areas: coastal and continental-margin geology, coastal and estuarine processes, paleoceanography, and sedimentology. The successful candidate will be expected to assist in developing a comprehensive marine geosciences capability within CMS and the University to complement our existing strengths in geochemistry and biogeochemistry. The CMS has a multidisciplinary research environment encompassing physical, chemical, biological oceanography, marine biology/biochemistry, ocean physics/engineering, and marine policy. The successful candidate will be expected to develop an externally funded research program and to contribute to graduate education through teaching and advisement of graduate students in geological oceanography. This position will be located on the Lewes campus of the University of Delaware, an ideal location for field-oriented near-shore research. The selection process will begin by September 1, 1999, continuing until the position is filled. This first position is to be filled as soon as possible, preferably no later than September 2000. Information about CMS can be found at [website: http://www.ocean.udel.edu/](http://www.ocean.udel.edu/). Contact: Interested candidates should submit (by mail or e-mail) a curriculum vitae accompanied by a statement of research and teaching interests, along with the names, addresses, telephone, FAX, and e-mail contacts of at least three references to: **Jonathan H. Sharp, Search Committee Chair, Graduate College of Marine Studies, University of Delaware, Lewes, DE 19958. E-mail: jsharp@udel.edu.**

The University of Delaware is an Equal Opportunity Employer that encourages applications from minority group members and women.

Immunology, virology, vaccines. **RESEARCH SCIENTIST** (Ph.D.), **RESEARCH ASSISTANT** (M.S. or equivalent), and **POSTDOCTORAL FELLOWS** to help develop vaccines for exotic BL4 viral agents (filoviruses) and improve existing vaccines (orthopoxvirus). Research Scientist: cellular immunology of viral vaccines, especially as applied to primates, is preferred; postdoctoral experience required. Assistant(s): versatility favored, as work includes immunology, virology, molecular biology, and viral pathogenesis. Appointments in circa five-year terms, renewable. U.S. citizenship required. NRC Associateships, both regular (recent Ph.D.'s or M.D.'s) and senior (for established Investigators), are also available to support basic research in related areas, in three- to five-year terms. Inquiries to: **Dr. Alan Schmaljohn or Dr. Mary Kate Hart, Virology Division, U.S. Army Medical Research Institute of Infectious Diseases, Ft. Detrick, Frederick, MD 21702. FAX: 301-619-2290.**

POSITIONS OPEN

FACULTY POSITIONS IN CONSERVATION BIOLOGY AND ENVIRONMENTAL POLICY Columbia University Biosphere 2 Center

Columbia University is seeking to fill three **ASSISTANT PROFESSOR** positions in conservation biology, ecosystem or landscape ecology, and environmental policy, to teach in the Earth Semester program at Biosphere 2 Center. The Earth Semester is a three-year-old, highly successful, interdisciplinary program in Earth systems and policy for undergraduates, taught at Columbia's western campus near Tucson, Arizona. This program currently serves 75 highly motivated and talented students per semester, from colleges and universities around the world. The successful candidate will join the small B2C resident faculty of Natural and Social Scientists of the Department of Earth and Environmental Sciences at Columbia. He/she will be expected to work with resident and visiting faculty in designing and teaching lectures, laboratory modules, student research projects, and field trips. An active research program is expected, and research that can involve undergraduates is especially desirable. These positions begin January 1, 2000. Applicants must hold or be very close to completing the Ph.D. degree. Persons with some background in southwestern ecosystems and issues are especially encouraged to apply. If you are interested in this unique opportunity for interdisciplinary teaching and scholarship, please send your curriculum vitae, list of references, and a letter describing your teaching and research interests to: **Dr. Richard C. Brusca, Director of Education, Biosphere 2 Center, P.O. Box 689, Oracle, AZ 85623. FAX: 520-896-6214; e-mail: rbrusca@bio2.edu.** Closing date: July 30, 1999.

Incyte Pharmaceuticals, Inc., is a leading provider of an integrated platform of genomic technologies designed to aid in the understanding of the molecular basis of disease. Incyte's platform includes database products, genomic data management software tools, and related reagents and services that Incyte provides to the pharmaceutical and biotechnology industries to assist their drug discovery and development efforts.

SENIOR SCIENTIST/ ASSOCIATE DIRECTOR

Ph.D. in molecular biology, biochemistry, or science. Eight-plus years of industry or academic experience. Requires strong background in molecular biology techniques (DNA sequencing and analysis essential). Experience with genomic technology development. Developing, evaluating, and implementing new technologies; effective verbal and written communication skills. Management experience essential.

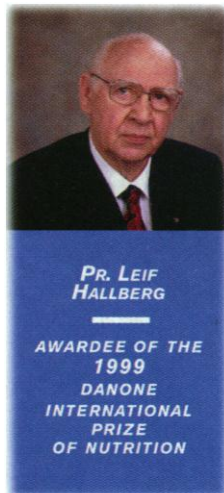
If you recognize these qualities in yourself, we want to hear from you. Incyte offers competitive salaries, an outstanding benefits package, and significant opportunities for professional growth. Mail/FAX your résumé to: **Incyte Pharmaceuticals, Attn: Human Resources/REF #PS2714, 3174 Porter Drive, Palo Alto, CA 94304. FAX: 650-845-4176; e-mail: employ@incyte.com; website: www.incyte.com.** *Equal Opportunity Employer. Females/Minorities/Veterans.*

MANAGER of Communications and Research Information. The USDA Forest Service, North Central Research Station, St. Paul, Minnesota is recruiting a highly motivated and experienced individual to direct and manage the internal and external public affairs, information, and marketing programs; customer service; and technology transfer activities associated with the Station's primary business: research and development. The resulting activities are designed to enhance the relevancy, outreach, and value of science-based knowledge and products to regional, national, and international client groups. Salary range \$58,053 to \$75,468 per year. Contact: **Personnel Management Office, Telephone: 651-649-5025** for qualification requirements and application procedures. Applications must be postmarked by July 30, 1999. U.S. citizenship required. *The USDA Forest Service is an Equal Employment Opportunity Employer.*



DANONE INTERNATIONAL PRIZE FOR NUTRITION

Created with the scientific support of the "Fondation pour la Recherche Médicale", the **Danone International Prize for Nutrition**, which totals FF 800 000 (around 120 000 Euros), is awarded every two years to a researcher or a team of researchers, whose work in **human nutrition** has made a major contribution to public health. The consultative and international selection procedure is modeled on the most renowned prizes in order to guarantee independence and transparency.



Pr. Leif Hallberg (Göteborg University, Sweden) was elected for his important contribution to the study of metabolism and needs of iron in humans. His research work has focused on the distribution of iron losses and requirements among different populations in the world, especially in large samples

of menstruating and pregnant women. An other major field of Pr. Leif Hallberg's work is regulation of dietary iron absorption.

Numerous studies based on original and validated methods were conducted, in the aim to determinate iron absorption from foods and meals and to systematically screen factors influencing iron absorption.

Over 670 scientists representing 53 countries were involved in the selection procedure of the

1999 Danone International Prize for Nutrition.

Pr. Leif Hallberg was elected unanimously by the Jury among 40 candidates.

Through this initiative, DANONE contributes to support the advancement in nutrition knowledge, pursuing its commitment in the field of health.

POSITIONS OPEN

ASSOCIATE RESEARCH SCIENTIST THE UNIVERSITY OF IOWA DEPARTMENT OF PATHOLOGY

Résumés are being accepted for an Associate Research Scientist in the Laboratory of Experimental Biology of Prostate Cancer. This position requires a Doctoral degree in molecular biology or an equivalent M.D., D.D.S., or D.V.M. degree and several years of progressively responsible pre- and/or postdoctoral experience with the full range of contemporary molecular biologic techniques. Demonstrated ability to plan and execute a research study through progressively responsible independent research, including the preparation of manuscripts and grant applications is highly desirable. Salary and benefits are competitive. Requisition #39981. Refer résumés to: **Mari Kucera, Human Resources, Department of Pathology, 1032 Medical Laboratories Building, University of Iowa, Iowa City, IA 52242. Telephone: 319-335-8589; e-mail: mari-kucera@uiowa.edu.** The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

POSTDOCTORAL FELLOWSHIP

A Postdoctoral position is available immediately to study the regulation of proteins involved in mammalian and *Drosophila* signal transduction pathways. Candidates with a strong background in molecular biology, protein biochemistry, or *Drosophila* genetics are encouraged to apply.

The position is part of the Division of Basic Sciences of the National Cancer Institute and is located at the Frederick Cancer Research and Development Center in Frederick, Maryland.

If interested, please send your curriculum vitae and names of three references to: **Dr. Deborah Morrison, Building 560, Room 22-91A, P.O. Box B, NCI-Frederick Cancer Research and Development Center, Frederick, MD 21702.** Your curriculum vitae and names of references also may be sent by FAX: 301-846-1666; e-mail: [morisod@ncixp.ncifcrf.gov](mailto:morrisod@ncixp.ncifcrf.gov).

The National Institutes of Health is an Equal Opportunity Employer and encourages all qualified women and minorities to apply. Selection for this position will be based solely on merit, with no discrimination for nonmerit reasons such as race, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization.

FELLOWSHIPS NEURAL PLASTICITY AND NEUROREHABILITATION

Fellowship positions are available, at VA Connecticut, West Haven Campus and the PVA/EPVA Center for Neuroscience Research, Yale Medical School, for well-trained individuals with Doctoral degrees who wish to obtain research training in areas relevant to restoration of function after injury to the central nervous system. Research training in the molecular and cellular basis of neural plasticity and in translational research, clinical trial design, and implementation are available. Candidates should possess a Ph.D. in one of the biomedical sciences and/or should be Board-eligible/Board-certified in a specialty such as neurology, internal medicine, or PM and R. Send curriculum vitae and three letters of reference to:

**Stephen G. Waxman, M.D., Ph.D.,
Chairman, Department of Neurology
Yale University School of Medicine LCI 708
333 Cedar Street
New Haven, CT 06510**

Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately, for up to three years, to study regulation of protein kinase C by phosphorylation in relation to NGF signaling. Experience in molecular biology and biochemistry is preferred. Send letter of intent, curriculum vitae, names and telephone numbers of references to: **Dr. Marie Wooten, Department of Biological Sciences, 331 Funchess Hall, Auburn University, AL 36849. E-mail: mwwooten@ag.auburn.edu.** Review of applications will begin August 1, 1999. Affirmative Action/Equal Employment Opportunity.

POSITIONS OPEN



Ceres, Inc. is a Malibu-based functional genomics company applying high-throughput technologies to plants with the aim of identifying genes that will improve traits in commercially important crops. We are looking for qualified applicants for the following positions:

RESEARCH ASSOCIATES (Culture collection: Ref. MCC). Qualifications: Must have excellent background in microbiology (B.S./M.S.) with one to three years of experience in bacterial culture management, and with good organizational and computing skills.

RESEARCH ASSOCIATES (Sequencing: Ref. SQS). Qualifications: Must have one to three years of experience in DNA sequencing (B.S.).

RESEARCH ASSOCIATES (Molecular biology: Ref. MLB). Qualifications: Must have excellent background in molecular biology (B.S./M.S.) with experience in recombinant DNA and RNA laboratory work.

We offer competitive salaries, excellent benefits, and equity participation. Highly motivated researchers should send résumé to (should mention the Ref. Code): **Human Resources Manager, Ceres, Inc., 3007 Malibu Canyon Drive, Malibu, CA 90265.**

POSTDOCTORAL POSITION in the Genetics Program at the University of Arizona studying the inheritance of genes in *Giardia* using transfection, FISH, and phylogenetic sequence analysis. A Ph.D. is required; experience in microscopy and in molecular genetic methods is desirable. Submit a curriculum vitae, brief description of relevant experience, and three letters of reference to: **Rod Adam, M.D., Department of Microbiology and Immunology, University of Arizona College of Medicine, 1501 North Campbell, Tucson, AZ 85724. E-mail: adamr@u.arizona.edu.** Review of application material is ongoing and will continue until position is filled. Reference #15093. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer/Minorities/Women/Disabled/Veterans.

POSTDOCTORAL POSITION. Available October 1999 to study mechanisms of retinoid acid and interferon signaling. Previous experience in molecular biology required. Send curriculum vitae and names of references to: **Leonidas C. Platanias, M.D., Ph.D., Associate Professor of Medicine, Section of Hematology-Oncology, M/C 734, Room 3150, The University of Illinois at Chicago, 900 South Ashland Avenue, Chicago, IL 60607. E-mail: lplatan@uic.edu.** UIC is an Affirmative Action/Equal Opportunity Employer.

We are recruiting a **POSTDOCTORAL SCHOLAR** trained in mammalian cell electrophysiology. The successful candidate will study synaptic transmission and other properties using both viral vector-mediated gene transfer and transgenic mice. You can learn more about our program at website: <http://www.cco.caltech.edu/~lester>. Please send a curriculum vitae, and arrange to have three confidential letters of recommendation sent to: **Henry A. Lester and Norman Davidson, Division of Biology 156-29, California Institute of Technology, Pasadena, CA 91125. Or by e-mail: [smboss@its.caltech.edu](mailto:Shannan Boss, e-mail: <a href=).**

RESEARCH ASSISTANT. Experienced Research Assistant for laboratory studying molecular biology of leukemia. Minimum requirements include B.A./B.S. and three to five years of experience in molecular biology and tissue culture. Experience with ES cells, hematopoietic assays, and computer highly desirable. Send cover letter and résumé to: **Jay Hess, M.D., Ph.D., c/o Zoe Zampana, Department of Pathology and Laboratory Medicine, 6 Gates, Hospital of the University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP IN THORACIC ONCOLOGY NATIONAL CANCER INSTITUTE

An immediate opening exists for a full-time Postdoctoral Training Fellowship in the Thoracic Oncology Section, Surgery Branch, National Cancer Institute. We are seeking an individual with documented expertise in cell cycle regulation, tumor suppressor genes, and gene therapy to extend our work pertaining to molecular mechanisms of lung and esophageal carcinogenesis.

Send cover letter, résumé, and statement of research interests to:

**David S. Schrupp, M.D.
Head, Thoracic Oncology Section
Surgery Branch
National Cancer Institute
National Institutes of Health
Building 10, Room 2B07
10 Center Drive MSC 1502
Bethesda, MD 20892-1502
FAX: 301-402-1788
E-mail: schrumpd@pop.nci.nih.gov**

Selection for this position will be based solely on merit, with no 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.

POSTDOCTORAL POSITIONS AVAILABLE

Two (2) Postdoctoral positions for qualified individuals are available immediately to study molecular mechanisms of brain injury and invasion as applicable to the central nervous system regeneration, trauma, and brain tumors areas. Candidates must possess previous experience in cell and molecular biology, a strong motivation, and interest in biological research. Candidates should possess a Ph.D. in molecular biology. Salary is highly competitive in state-of-the-art facilities and positions are intended to be for at least two years, with possibility of an extension depending on productivity record. If interested, please contact and/or send résumé to: **Dario Marchetti, Ph.D., The University of Texas-Houston, Health Science Center, Medical School, Department of Neurosurgery, MSB 7.136, Houston, TX 77030. Telephone: 713-500-6137; FAX: 713-500-7787; e-mail: dmarchet@heart.med.uth.tmc.edu.**

POSTDOCTORAL FELLOW

Guaranteed two- to three-year appointment. Research on various aspects of molecular and cell biology of matrix proteins and kinases of skeletal tissues. Send research interests, curriculum vitae, and contact information for three references to: **Melvin J. Glimcher, M.D., Department of Orthopedic Surgery, Harvard Medical School, Children's Hospital, 300 Longwood Avenue, Enders 11, Boston, MA 02115. Telephone: 617-355-6754; FAX: 617-730-0226; e-mail: glimcher@al.tch.harvard.edu.** Equal Opportunity Employer/Affirmative Action.

POSTDOCTORAL POSITIONS in signal transduction and carcinogenesis. (1) Mouse models will be used to investigate EGF family receptors in the developing mammary gland and the relationship to breast cancer. (2) DNA checkpoint pathways and their relationship to cell cycle regulation. **David F. Stern, Ph.D., Department of Pathology, Yale University School of Medicine, P.O. Box 208023, New Haven, CT 06520-8023. E-mail: stern@biomed.med.yale.edu; website: <http://expertise.cos.com/cgi-bin/exp.cgi?id=397261>.**

POSTDOCTORAL POSITION available to study molecular mechanisms of apoptosis, especially apoptosis in central nervous system neurons. Experience in cell biology, signal transduction, or molecular biology is desired. Excellent research and living environment. Send curriculum vitae and three letters of references to: **Dr. Zhengui Xia, University of Washington, Box 357234, Seattle, WA 98195. FAX: 206-685-3990; e-mail: zxia@u.washington.edu.**

SENIOR RESEARCH SCIENTIST THROMBOSIS/HAEMOSTASIS RESEARCH



This is an excellent opportunity to join the headquarters Discovery Research division of Roche in Basel. Roche has an outstanding reputation for innovation and quality in the research and development of new medicines and last year achieved consolidated sales in excess of SFr 12 billion.

Further investment in cardiovascular interests has led to creation of a new position, at Laboratory Head level, in coagulation research. Joining a high calibre group which has an established record for discovery of new compounds in the anti-platelet field, you would:

- perform studies on protease inhibitors and their influence on the coagulation system
- develop new haematological methods and test systems, relevant to the clinical setting, for studying ex vivo/in vitro efficacy and mechanism of action
- provide research support to related drug discovery programs in thrombosis

You would be supported in your role by experienced technicians and operate in a well-equipped laboratory with state-of-the-art facilities.

We seek a dynamic, innovative and team-oriented scientist, with a relevant PhD - with an in depth knowledge and experience of biochemistry and in vitro pharmacology, preferably in haematological science and the coagulation system. Such experience should have been gained from a minimum of 2-3 years postdoctoral research within a leading pharmaceutical or academic laboratory at the cutting edge of haematological research. Previous industrial experience would be advantageous.

Terms and conditions for this post are excellent and generous relocation assistance will be provided where appropriate.

To progress your application, please contact Dr Kevin Young at Euromedica, e-mail: kevinyoung@euromedica.com

EUROMEDICA

Executive Search in Healthcare

Euromedica plc, 7 Heron Quays
Docklands, London E14 4JB. UK
Tel: 44 (0)171 536 7950
Fax: 44 (0)171 538 8362

BRUSSELS · CAMBRIDGE · FRANKFURT
HAMBURG · LONDON · MADRID · PARIS



The Kerckhoff-Institute of the Max Planck Gesellschaft, Division of Experimental Cardiology, headed by Professor W. Schaper, expands its molecular research into the field of transgenic mouse physiology and has acquired a 7.5 T NMR facility that is part of the clinical NMR Research Unit of the Kerckhoff-Clinic, one of the largest Heart Centres in Germany. To lead this new experimental unit, to participate in the ongoing research, to develop new hard-and software for imaging and spectroscopy we are looking for a

Basic Scientist

(Physicist or Chemist or other background with MR-experience)

The position is remunerated well above the standard salary of an academic basic scientist. The Institute is located in the foothills of the Taunus mountains in the picturesque historical Spa Bad Nauheim, almost a suburb of cosmopolitan Frankfurt, that can be reached by public transport in 30 minutes. The Max Planck Institute has academic links to the Universities of Frankfurt, Marburg and Gießen and is in itself a cosmopolitan English-speaking environment with up to 80 scientists from all over the world notably Europe, Asia, Australia and North America.

Applicants should send their CV to:

Professor W. Schaper
Max Planck Institute for Clinical and
Physiological Research
Dept. of Experimental Cardiology
Benckstr. 2, D-61231 Bad Nauheim, Germany
phone: 0049-6032-705-402,
fax: 0049-6032-705-419
e-mail: w.schaper@kerckhoff.mpg.de
<http://www.kerckhoff.mpg.de/default.html>

INSTITUT FÜR MOLEKULARE BIOTECHNOLOGIE E.V.

imb

MITGLIED DER WISSENSCHAFTSGEMEINSCHAFT
GOTTFRIED WILHELM LEIBNIZ E. V.

The Institute of Molecular Biotechnology (IMB) is a member of the organization of Leibniz Institutes. Founded in 1992, the institute is actively pursuing multidisciplinary basic and applied research in molecular biotechnology, with an emphasis on genomics and structural biology. To strengthen our efforts in evolutionary approaches, we are now seeking to appoint a

Head of Department Evolutionary Biotechnology

In addition to this position and provided the successful candidate has good teaching skills, it is intended to offer him/her a

Professorship (C3/C4)

at the Friedrich-Schiller-University of Jena

a university voted in recent polls among the best in Germany in the fields of medicine and science. While being an independent research institute, the IMB has many collaborations with this university and engages in the education of the next generation of molecular biotechnologists. The IMB is situated at the Beutenberg science campus, which offers excellent opportunities for interaction with other research institutes as well as several biotech start-up companies. Unique opportunities for collaboration exist with the local optics industry within the framework of the Jena BioInstruments concept. The Jena biotechnology region was awarded the special prize in the 1996 BioRegio competition organized by the Federal Government.

The successful candidate will be expected to contribute to the acquisition of research funds by the institute. At present, more than half of the personnel employed at the IMB is on grant money and we intend to maintain this leading position. The new Head of Department will be involved in coordinating and directing the various research programmes at the institute.

Informal enquiries can be directed to **Professor Rolf Hilgenfeld** at the IMB, telephone +49-3641-656333. More information on the IMB is available under <http://www.imb-jena.de>.

The IMB and the Friedrich-Schiller-University are committed to increase the number of women in research and teaching and therefore encourage qualified female scientists to apply for this position.

Candidates with a strong publication record in the field of molecular evolutionary biology/ evolutionary biotechnology are invited to submit their applications, including c.v., list of publications, the names and addresses of three referees, an outline of their research program, and documents detailing their teaching experience, by **August 15, 1999**, to

**Dekanat · Biologisch-Pharmazeutische Fakultät
Friedrich-Schiller-Universität Jena
Fürstengraben 26 · D-07743 Jena · Germany**

POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION

A position is available to develop novel approaches for reconstitution and genetic manipulation of immune response. Research focus is on (1) mechanisms of thymic involution and regeneration; (2) impact of bone marrow transplantation, HIV infection, and aging on T cell development and reconstitution; (3) mechanisms of thymic-dependent T cell differentiation; and (4) induction of antigen-specific immune responses via genetic manipulation.

Studies involve both *in vitro* and *in vivo* animal models of thymopoiesis and gene transfer; opportunity to bridge basic immunology and clinical research. Minimum requirements include Ph.D. and/or M.D. Expertise in molecular biology or immunology essential. Please send cover letter, curriculum vitae, and names of three references to:

Margo R. Roberts, Ph.D.
Associate Professor

Departments of Microbiology and Medicine
University of Virginia
Box 441 Health Sciences Center
Charlottesville, VA 22908
Telephone: 804-982-4119
FAX: 804-982-4186
E-mail: mroberts@virginia.edu

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

A POSTDOCTORAL POSITION is available to study human and mouse immune responses to *Borrelia burgdorferi* and *Treponema pallidum*, the agents of Lyme disease and syphilis. The focus of the project shall be to use molecular and cellular approaches to study the interactions between innate immunity and spirochetal lipoproteins. Proficiency with tissue culture, flow cytometry, and both prokaryotic and eukaryotic recombinant DNA techniques is extremely desirable. Position includes salary (negotiable), fringe benefits, and the opportunity to work in a rapidly expanding microbial pathogenesis center located in the heart of Lyme disease country. Send two copies of curriculum vitae and the names/telephone numbers/e-mail addresses of three references to: **Dr. Justin Radolf, Center Director, Center for Microbial Pathogenesis, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030-3710. FAX: 860-679-8130; e-mail: jradolf@up.uchc.edu.**

POSTDOCTORAL POSITION STRUCTURAL BIOLOGY OF CELL CYCLE REGULATION

A Postdoctoral position is immediately available to study proteins regulating the cell cycle, primarily using X-ray crystallography. Applicants should have a background in crystallography. Cell Cyclists motivated to learn will also be considered. Excellent X-ray, computational, and wet laboratory facilities are available here and in conjunction with the Keck Center for Structural Biology.

Send curriculum vitae and names of two references to: **Dave Wilson, Section of Molecular and Cellular Biology, University of California, Davis, CA 95616. E-mail: dave@alanine.ucdavis.edu.**

A POSTDOCTORAL RESEARCH FELLOWSHIP position is available for an Investigator interested in the transcriptional control of intestinal gene expression. The candidate must have Ph.D.-level training and publications in molecular biology (preferably involving the gastrointestinal tract), and must have a permanent resident visa ("green card") or U.S. citizenship. Interested individuals should submit curriculum vitae, a letter describing background and experience, and three letters of recommendation from faculty mentors forwarded to: **Richard J. Grand, M.D., Division of Pediatric Gastroenterology and Nutrition, Tufts University School of Medicine, New England Medical Center, 750 Washington Street, Box 213, Boston, MA 02111. FAX: 617-636-8718.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS AT SANDIA NATIONAL LABORATORIES FOR MICROSCALE TOTAL ANALYTICAL SYSTEMS RESEARCH

The Chemical and Radiation Detection Laboratory at Sandia National Laboratories in Livermore, California is a multidisciplinary state-of-the-art facility established to develop advanced chemical sensing and bioanalytical technologies. Sandia uses its expertise in chemistry, physics, biology, and engineering (often in close collaboration with major commercial, academic, government, and research institute partners) to develop solutions related to national security and public safety challenges.

Positions are now available for Postdoctoral Associates in the area of microscale Total Analytical System (mTAS) development. Projects involve development and/or integration of miniaturized chemical/biochemical separations (electrophoresis, electrochromatography, affinity chromatography, high-pressure liquid chromatography, etc.) and detection (laser-induced fluorescence, integrated optics, electrochemistry, mass spectrometry, etc.). Major projects include the development of field-portable and advanced laboratory-based analytical instrumentation and methods.

Desirable applicants will have a Ph.D. with a broad background and extensive knowledge in one or more of the following areas: chemistry (analytical, biological, bioanalytical, physical), separation science, biophysics, biophysical/biomedical engineering, fabrication of microsystems (MEMS), physics, or related disciplines. Creative candidates with excellent academic and research qualifications, who enjoy working in an energetic team-oriented environment should submit a résumé, publication list, and reference list to:

Sandia National Laboratories
c/o Anna Isham, MS 9111
Human Resources Department—CA0047
P.O. Box 969
Livermore, CA 94551-0969

U.S. citizenship is required. Sandia National Laboratories is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION to study the structure-function relationships of human thromboxane A₂ receptors is immediately available. The studies combine molecular biology, protein purification, photoaffinity labeling, peptide sequencing of the proteolytic fragments of the receptors using mass spectrometry. Preference will be given to applicants with experience in molecular biology and protein purification. Curriculum vitae should be sent to: **Perry V. Halushka, Ph.D., M.D., Medical University of South Carolina, Department of Pharmacology, 171 Ashley Avenue, Charleston, SC 29425. FAX: 843-792-0816; e-mail: halushpv@musc.edu. MUSC is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION in a NIH-supported project for development of a phenylalanine-free protein for use as a dietary treatment of phenylketonuria (PKU). Ph.D.-M.D. applicants with background in biochemistry, molecular biology, and/or nutrition with interest in plant genetics, nutraceuticals, or functional foods should send curriculum vitae and three references to: **Bryan E. Hainline, M.D., Ph.D., Pediatric Metabolism, Indiana University School of Medicine, Riley Hospital, Room 0907, 702 Barnhill Drive, Indianapolis, IN 46202-5225. Telephone: 317-274-3966.**

POSTDOCTORAL POSITION is available immediately for research using the exciting and powerful technology of combinatorial peptide synthesis for the design and engineering of membrane proteins. Synthesis skills are not necessary. Send curriculum vitae and names of three references to: **William C. Wimley, Ph.D., Biochemistry SL43, Tulane University Medical Center, New Orleans, LA 70112-2669. E-mail: wwimley@mailhost.tcs.tulane.edu.** Position will be open until a qualified applicant is identified. *Equal Opportunity Institution.*

POSITIONS OPEN

POSTDOCTORAL SCIENTIST FULL-TIME, EXEMPT

The Ecosystems Center of the Marine Biological Laboratory (MBL) is seeking applicants for a full-time Postdoctoral Scientist position on an ongoing ecological research project. Funding is available immediately.

Duties: The successful candidate will participate in research leading to regional and pan-arctic assessments of the response of carbon cycling in arctic ecosystems to global change. As part of the National Science Foundation Arctic System Science (ARCSS) program, the candidate will take a major role in the parameterization, implementation, and further development of the MBL General Ecosystem Model (MBL-GEM). Activities include compilation and synthesis of data sets from the literature and other ARCSS projects, model sensitivity analysis and calibration, and interaction with other ARCSS modeling projects.

Skills/education/experience required: Ph.D. in terrestrial biology, ecology, or biogeochemistry. Experience with dynamic simulation modeling, analysis of modeling results and statistics. Scientific writing skills are a must. The successful candidate will be expected to schedule his or her own work, supervise a Research Assistant, and take a leadership role on the project.

Conditions of employment: Applicants should be able to work in collegial, collaborative environment.

Deadline: Until a suitable candidate is identified.

Please send letter of interest, résumé, the names, addresses, telephone numbers, and e-mail addresses of three references to: **Marine Biological Laboratory, Human Resources, Reference (PDS ARCSS), 7 MBL Street, Woods Hole, MA 02543. E-mail: resume@mbi.edu.**

An Equal Opportunity/Affirmative Action/Nonsmoking workplace.

POSTDOCTORAL FELLOWS AND RESEARCH FACULTY MARINE AND ENVIRONMENTAL SCIENCE

**Wrigley Institute for Environmental Studies
The University of Southern California**

Catalina Island: (1) Two Postdoctoral Fellows in any area of marine and environmental science, and (2) Education Officer responsible for coordination of undergraduate programs.

University Park Campus: Postdoctoral or Research Scientists (level open) in (1) ocean biogeochemistry (with **Dr. Douglas Capone** or **Dr. Anthony Michaels**); (2) marine animal physiology (**Dr. Donal Manahan**); (3) environmental economics and policy (**Dr. Judith Kildow** and others).

Postdoctoral Fellowships funded for one to two years. Research faculty positions available at any level. Details and application information available at website: <http://wrigley.usc.edu>. Send questions to e-mail: close@usc.edu. Application deadline: July 23, 1999.

POSTDOCTORAL AND RESEARCH ASSOCIATE POSITIONS Gene Therapy and Molecular Virology Children's Hospital Research Institute Columbus, Ohio

Children's Hospital Research Institute. Gene therapy and molecular virology laboratory, with research projects that include fundamental studies on adeno-associated virus (AAV) vector targeting and therapeutic gene delivery, is seeking highly motivated individuals to fill Postdoctoral and Research Associate positions. Proficiency in advanced molecular biology and tissue culture techniques is required. Research experience in virology, especially AAV virology, or vector targeting is highly desirable. Competitive salary with full benefits is available to successful candidates. Send letter of application, curriculum vitae, and names/contact details of three references to: **Dr. Jeffrey S. Bartlett, Children's Hospital Research Institute, Room W531, 700 Children's Drive, Columbus, OH 43205. E-mail: bartlettj@pediatrics.ohio-state.edu. Equal Opportunity Employer.**

MITGLIED DER WISSENSCHAFTSGEMEINSCHAFT
GOTTFRIED WILHELM LEIBNIZ E. V.

Group Leader Cryo-Electron Microscopy

The Institute of Molecular Biotechnology (IMB) and the Friedrich-Schiller-University (FSU) in Jena are seeking to fill an independent group leader position in the field of cryo-electron microscopy to investigate the structures of biomacromolecular complexes at high resolution. The post is initially tenured for five years and will be paid according to the German BAT-O scale. In case of exceptional qualifications, promotion to a five-year associate professorship (German C3 scale) is possible.

The candidate to be chosen will be expected to build his/her own research group, which will be imbedded within the Special Research Program "Bio- and Model Membranes" already existing in Jena. The research focus of the new group should be on the determination of three-dimensional structures of large molecular assemblies involved in signal transduction processes. The available equipment includes Philips CM120 and Zeiss 902 electron microscopes.

The research institutions in Jena offer an exceptional environment for research in structural biology with expertise in NMR, X-ray crystallography, and light and electron microscopy. The structural biology unit at the IMB is recognised as a European Large-scale Facility by the European Commission.

The new research group will be located at the IMB but is expected to collaborate closely with researchers at the FSU. The IMB is at the center of a lively biomedical campus in Jena, in the heart of the pitoresque landscape of Thuringia.

Applicants should send a CV, description of research interests, and the names and addresses of three potential referees to **The Personnel Manager, Institute of Molecular Biotechnology, Beutenbergstr. 11, D-07745 Jena, Germany**. Closing date for applications will be **August 15, 1999**.

Informal inquiries can be addressed to **Professor Wetzker (Tel. +49-3641-304460)** or **Professor Hilgenfeld (Tel. +49-3641-656333)**.



Sonderforschungsbereich Bio- und Modellmembranen

Friedrich-Schiller-Universität Jena, Max-Planck-Gesellschaft Halle-Wittenberg, Universität Leipzig, Universität Tübingen, Institut für Molekulare Biotechnologie (IMB), Forschungszentrum für Neurodegeneration, Jena, Germany

LABORATORY OF MOLECULAR BIOLOGY CAMBRIDGE

CAREER-TRACK POSITION IN NEUROBIOLOGY PHYSIOLOGY/IMAGING

Applications are invited from scientists interested in carrying out a programme of basic research in the Division of Neurobiology. Current research interests focus on molecular and physiological studies of synaptic function, gene regulation and the molecular basis of neurodegeneration. We are particularly interested in candidates who use electrophysiological and/or imaging methods to study the function of neurons.

Career-track positions are equivalent to tenure-track and are for candidates at an early stage in their career. The initial appointment would be for five years. The appointment will be to MRC Salary Band 2 (£24,500 - £60,000 per annum) and the starting salary is likely to be in the range of £24,500 - £30,000 per annum depending on qualifications and experience. This is supported by a performance related pay scheme and MRC Pension Scheme. The site has excellent sports and social facilities.

The Laboratory of Molecular Biology provides an excellent environment for biophysical research. Institutional funding is available and there are no teaching responsibilities. There is an extensive central support including electronic and instrumentation workshops and imaging facilities. Interactions across the five Divisions within the laboratory are encouraged. Further information about the Laboratory may be obtained at <http://www.mrc-lmb.cam.ac.uk>

Further information about positions with the Neurobiology Division may be obtained from Dr Nigel Unwin (Tel: +44 1223 402492) or Dr Leon Lagnado (Tel: +44 1223 402453; email LL1@mrc-lmb.cam.ac.uk)

Applications, including two copies of a full CV and the names and addresses of two professional referees, should be sent by 6th August 1999, quoting reference NB/CC to: Johanna Webb, Personnel Officer, MRC Centre, Hills Road, Cambridge, CB2 2QH

Some financial assistance with relocation may be available.

The Medical Research Council is an Equal Opportunities Employer and operates a strict no smoking policy.

MRC
Medical Research Council

The closing date for applications is
1st September 1999

ST BARTHOLOMEWS
AND THE ROYAL LONDON SCHOOL
OF MEDICINE AND DENTISTRY

Chair of Medical Microbiology

Applications are invited to fill an established Chair in Medical Microbiology.

The successful candidate will be based in the Department of Medical Microbiology, in the Division of Molecular Pathology, Infection and Immunity.

You will be expected to lead an active research programme in medical microbiology and will also be expected to contribute to undergraduate and postgraduate teaching. The post is open to clinical and non-clinical scientists.

Informal enquiries about this post can be made to Professor Anthony J. Pinching, Head of Division (0171-601 8428, A.J.Pinching@mds.qmw.ac.uk) or Professor David Williams, Deputy Warden, (0171 377 7747, d.warden@qmw.ac.uk)

For further information and an application form please contact our 24 hour recruitment line on 0171-415 3737 or email: smd-recruit@qmw.ac.uk, quoting reference number 99569/PG.

Your application together with 14 copies of your Curriculum Vitae is to be returned by 19th July 1999 and should be addressed to SMD Recruitment, Queen Mary and Westfield College, London E1 4NS.

WORKING TOWARDS EQUAL OPPORTUNITIES



QUEEN MARY
AND WESTFIELD COLLEGE
UNIVERSITY OF LONDON



Swiss Federal Institute for Forest, Snow and
Landscape Research
Eidgenössische Forschungsanstalt für Wald,
Schnee und Landschaft

Our Institute undertakes research into the use, management and protection of terrestrial habitats and the management of natural hazards. In the Forest Division, we have a vacancy for the post of:

Leader Forest Ecosystems and Ecological Risks Department

The unit consists of about 20 people and investigates various aspects of forest ecology, including ecophysiology, nutrient cycles and forest condition, and is also responsible for long-term forest ecosystem monitoring and ecological risk analysis. Particular emphasis is placed on interdisciplinary research and on the solution of complex ecological problems.

For this exacting task, we are looking for someone with leadership experience and an international scientific reputation in the field of forest ecology and/or ecological risk analysis.

We expect the successful candidate to have leadership qualities, such as social responsibility, communication skills and decision-making ability, and to be dynamic and creative. In addition, a solid publication list in international reviewed journals and demonstrated experience of working in international research teams is expected. Apart from English, a good knowledge of German is required; in addition, knowledge of French or Italian would be an advantage.

We offer a team-oriented working environment and the possibility for further advancement, so that you can develop an international profile. The existing research team is highly motivated, the infrastructure is excellent and there are many exciting challenges for the future.

Information about the WSL and about the Department is available at the following web site: <http://www.wsl.ch>. Further information about the position will be gladly provided by Dr. B. Oester, Leader of the Forest Division. Your letter of application, including a curriculum vitae, publication list and the names of up to five referees should be sent to our Personnel Office, with a reference to **Vacancy No. 188**. In order to improve the ratio between men and women in leadership positions, applications from female scientists are particularly welcome.

Swiss Federal Institute for Forest, Snow and Landscape Research,
Personnel Office, Alfred Wihler
Zürcherstrasse 111, 8903 Birmensdorf, Tel. 0041 -1 739 2111

POSITIONS OPEN

POSTDOCTORAL POSITIONS in cardiovascular molecular biology. Positions available now for one of the longest active NHLBI Training Grants in cardiovascular molecular biology. Studies provide experience in transgenics, knockouts, and mouse heart physiology, electrophysiology, and gene-treatment strategies and heart failure. Special attention to preparation for careers in academics or industry. Our track record is excellent. Ph.D. and/or M.D. required. Laboratories located in new state-of-the-art Cardiovascular Center. Please note: applicants must be citizens or permanent residents of the United States. Contact: **Dr. Arnold Schwartz, Professor/Director, Institute of Molecular Pharmacology/Biophysiology, University of Cincinnati Cardiovascular Center, Cincinnati, OH 45267-0828. Telephone: 513-558-2400; FAX: 513-558-1778; e-mail: schwara@emil.uc.edu.** Candidates are invited to check website: http://www.med.uc.edu/cardio_bio. University of Cincinnati is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH MOLECULAR IMMUNOLOGY

Position available to study the role of BCL3 and NF- κ B transcription factors in normal lymphocyte physiology and in cancer. Projects involve immunological analysis of transgenic and knockout models and the study of transcriptional regulation and protein-protein interactions. Experience in cellular immunology, molecular biology, or mouse models is expected. Please send letter of interest outlining professional background, current curriculum vitae, and list of references to: **Timothy McKeithan, M.D., Ph.D., Department of Pathology and Microbiology, University of Nebraska Medical Center, 983135 Nebraska Medical Center, Omaha, NE 68198-3135.**

University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

POSTDOCTORAL FELLOW position is available immediately to study mechanisms of *in utero* HIV transmission. Experience with trophoblast cell isolation, molecular biology, and HIV research are highly desired. Candidate should hold a Ph.D. degree in a related field. Salary is highly competitive and includes benefits. Completed application must be received by August 15, 1999. Please send current curriculum vitae to: **Dr. Lena Al-Harthi, Department of Immunology/Microbiology, Rush Presbyterian St. Luke's Medical Center, 1653 West Congress Parkway, Chicago, IL 60612. E-mail: laharth@rush.edu.** Rush Presbyterian St. Luke's Medical Center and Rush Medical College are Equal Opportunity/Affirmative Action Employers.

MOLECULAR PHYSIOLOGY OF ODORANT CODING

POSTDOCTORAL POSITION. Project involves cloning of olfactory receptors, *in situ* hybridization, and voltage-sensitive dye recordings from olfactory epithelium. Candidates must have extensive experience in molecular biological techniques. Send curriculum vitae and names and addresses of references to: **Dr. James E. Marchand, Department of Anesthesia Research, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111. E-mail: jmarchan@opal.tufts.edu.**

University of California at San Francisco **POSTDOCTORAL POSITIONS** available immediately in Oncology and Cancer Center to study human mammary gland tumorigenesis and targeted therapeutics focusing on Ets factors, ErbB2/HER2/*neu* transcriptional overexpression and signaling, redox stress, and altered estrogen receptor function. Strong background in molecular biology required. Send, FAX, or e-mail curriculum vitae and references to: **Chris Benz, M.D., Box-1270, 505 Parnassus, University of California at San Francisco, San Francisco, CA 94143-1270. FAX: 415-476-6998; e-mail: benz@itsa.ucsf.edu.**

POSITIONS OPEN

The USDA, Agricultural Research Service, Plum Island Animal Disease Center is seeking a Microbiologist (**POSTDOCTORAL RESEARCH ASSOCIATE**) to study the viral receptor for foot-and-mouth disease virus, which has recently been identified as the integrin $\alpha_v\beta_3$ (Neff et al., *J. Virol.* 72:3587, 1998). The research will involve cloning receptors from susceptible species, mutational analysis of cloned receptors, determination of coreceptor requirements, participation in structural studies of virus-receptor complexes, and pathogenesis studies. A Ph.D. and specific training focusing on molecular and cell biology is required. Experience in receptor biology is desirable.

Salary range \$41,726 to \$50,008 (commensurate with experience) plus benefits. There are some employment restrictions for non-U.S. citizens. For research program information contact: **Dr. Barry Baxt, Telephone: 516-323-2500, ext. 354; e-mail: bbaxt@asrr.arsusda.gov.** For application instructions call: **Maria Martoccia, Telephone: 516-323-2500, ext. 346** and refer to vacancy announcement RA99-48L, or print it from the Internet at website: <http://www.ars.usda.gov/afm/hrd/resjobs>.

The Plum Island Animal Disease Center is located approximately one and a half miles from the east end of Long Island, New York and is accessible by government ferry from either Orient Point, Long Island or Old Saybrook, Connecticut. Application must be postmarked by July 30, 1999. USDA/ARS is an Equal Opportunity Employer and Provider.

POSTDOCTORAL POSITIONS EUNICE KENNEDY SHRIVER CENTER

Funded Postdoctoral positions available starting July 1, 1999, to study alternative splicing of the neuronal-specific human tau gene, whose misregulation causes frontotemporal dementia. Candidates should have a Ph.D. with experience in molecular and cellular biology; knowledge of protein purification and antibody techniques is desirable.

The Shriver Center, located in suburban Boston, is an affiliate of Massachusetts General Hospital and Harvard Medical School. The Department of Biomedical Sciences provides extensive core facilities and many opportunities for scientific interactions.

Please send curriculum vitae and the names and telephone numbers of three references to: **Athena Andreadis, Ph.D., Eunice Kennedy Shriver Center, Biomedical Sciences, Room 205, 200 Trapelo Road, Waltham, MA 02452. FAX: 781-894-9968; e-mail: aandreadis@shrivers.org.** Visit our website: www.shrivers.org.

POSTDOCTORAL CELL AND MOLECULAR BIOLOGIST

A Postdoctoral position is available in the laboratory of **Dr. Paul Dent.** The position is to study the interactions between signal transduction pathways and transcriptional control of the cell cycle in primary hepatocytes. Studies are to gain an understanding of defective growth arrest mechanisms during tumorigenesis. Highly motivated candidates with experience in cellular and molecular biology are encouraged to apply. Animal handling and adenovirus construction a plus. Send curriculum vitae and the names and addresses of at least 3 references by mail or e-mail to: **Dr. Paul Dent, Department of Radiation Oncology, 401 College Street, Massey Cancer Center, Medical College of Virginia, Virginia Commonwealth University, Richmond, VA 23298-0058 USA. E-mail: pdent@hsc.vcu.edu.**

POSTDOCTORAL POSITIONS

Seeking two Postdoctoral Fellows to join dynamic research team engaged in studying SIV/HIV pathogenesis and vaccine development. The first position involves studying specific antiviral immune responses and passive immunoprophylaxis. The second position focuses on elucidating the role of dendritic cells in lentiviral disease progression. Experience in virology and/or immunology highly desirable. Send curriculum vitae and names of three references to: **Dr. Ruth Ruprecht, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. E-mail: ruth_ruprecht@dfci.harvard.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS DEPARTMENT OF PHARMACOLOGY UNIVERSITY OF PENNSYLVANIA School of Medicine

The Department of Pharmacology has immediate openings for two Postdoctoral positions to study structure-function aspects of aldo-keto reductases (AKRs) involved in steroid hormone transformation. Target AKRs include steroid 5 β -reductase as well as mammalian 3 α - and 20 α -hydroxysteroid dehydrogenases, which regulate the occupancy of the androgen and progesterone receptor, respectively. One position will use over-expression systems, site-directed and random mutagenesis, steady-state and transient kinetics, stopped-flow spectrometry, and kinetic isotope effect studies to elucidate mechanism and determinants of steroid hormone specificity. The other position will use X-ray crystallographic techniques to elucidate structures of these enzymes and their binary and ternary complexes. Competitive stipend and opportunities for career advancement exist. Send curriculum vitae and names of three references to: **Trevor Penning, Ph.D., Department of Pharmacology, 3620 Hamilton Walk, Philadelphia, PA 19104-6084. E-mail: penning@pharm.med.upenn.edu.** The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION BIOPHYSICAL CHEMISTRY University of Maryland, College Park

We have a Postdoctoral position available to study the physical chemistry of the polymerization of actin. This polymerization from G- to F-actin is crucial to how cells hold their structure, and to how they move from place to place. Experience is required in biochemistry and/or molecular biology.

For best consideration, send résumé and names of two references by August 1, 1999, to: **Professor Sandra C. Greer, University of Maryland, College Park, Department of Chemical Engineering, College Park, MD 20742-2111. E-mail: sg28@umail.umd.edu; website: <http://www.ench.umd.edu/faculty/greer.html>.** Or: **Professor Jeffrey G. Forbes, University of Maryland, College Park, Department of Chemistry and Biochemistry, College Park, MD 20742-2021. E-mail: jf95@umail.umd.edu; website: <http://chem-77.umd.edu>.** The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS UNIVERSITY OF MINNESOTA DEPARTMENT OF NEUROLOGY

Postdoctoral positions are available immediately to study the biology of Alzheimer's disease in transgenic mice. Experience in molecular biology, rodent behavior, electrophysiology, cell biology, or biochemistry is desirable. Please send a curriculum vitae, names of three to six references, and a one-page overview of your research background, interests, and accomplishments to: **Dr. Karen Hsiao, Department of Neurology, Box 295 FUMC, 420 Delaware Street S.E., Minneapolis, MN 55455. E-mail: hsiao001@maroon.tc.umn.edu.**

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

POSTDOCTORAL POSITION is available to study transcriptional regulation by the human T-cell leukemia virus type-I Tax protein. Project involves both biochemical characterization of Tax coactivators and *in vivo* tissue culture experiments. The Institute of Molecular Medicine and Genetics (IMMAG) offers a highly interactive environment with outstanding facilities. Send curriculum vitae to: **Mark Anderson, Ph.D., Medical College of Georgia, 1120 15th Street, Institute of Molecular Medicine and Genetics, Room CB2803, Augusta, GA 30912-2650. E-mail: manderson@immag.mcg.edu.** MCG is an Equal Opportunity Employer. Women, minorities, and disabled persons are encouraged to apply.

POSITIONS OPEN

POSTDOCTORAL FELLOW POSITION

A Postdoctoral position is available immediately in the Regulation of Gene Expression Section, Laboratory of Molecular and Developmental Biology in the National Eye Institute, National Institutes of Health, Bethesda, Maryland. Research projects focus on study of signal transduction and protein-protein interaction of transcription factors involved in the regulation of gene expression in the ocular lens. *The applicant must be a U.S. citizen or permanent resident, have a Ph.D. degree, and less than five years of postdoctoral experience.* Experience in molecular biology required. Salary ranges from \$27,500 to \$38,000 depending upon previous experience. Please send curriculum vitae, bibliography, and names of three references to: **Dr. Ana B. Chepelinsky, Laboratory of Molecular and Developmental Biology, NEI, NIH, 6 Center Drive—MSC 2730, Building 6, Room 211, Bethesda, MD 20892-2730. FAX: 301-480-7933; e-mail: abc@helix.nih.gov.**

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POSTDOCTORAL POSITION. Individuals with expertise in pharmacokinetic (PK)/pharmacodynamic (PD) modeling, statistics, engineering, or mathematics and interested in working in the area of anti-cancer drug pharmacology are encouraged to apply. Projects involve the development of population PK/PD models (nonlinear mixed effects models) of anti-cancer drugs. Fox Chase Cancer Center is world-renowned and offers a stimulating and congenial environment. Visit **website: www.fccc.edu** and check out Scientific Report. Please apply by sending résumé to: **James M. Gallo, Ph.D., c/o Human Resources, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.**

A **POSTDOCTORAL POSITION** in molecular neurobiology is available immediately to study the molecular mechanism underlying neurotransmitter release. Current studies are using molecular and biochemical techniques to identify and characterize novel proteins in synaptic vesicle trafficking. Highly motivated individuals with a recent Ph.D. and experience in molecular biology, cell biology, and/or biochemistry are encouraged to apply. Please send curriculum vitae and names of three references to: **Lian Li, Ph.D., Department of Pharmacology, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7178. E-mail: lianli@med.unc.edu.**

EUROPEAN OPPORTUNITIES

TWO POSTDOCTORAL POSITIONS (BAT2a) FOR TWO YEARS

**ZMBP, Plant Physiology
University of Tübingen**

For (1) identification/analysis of plant solute transporters by yeast complementation and (2) electrophysiological characterization of transporters in oocytes. Experience in yeast genetics/molecular biology/electrophysiology are beneficial. Applications with curriculum vitae, publications list, names of references to: **W. B. Frommer, ZMBP, Auf der Morgenstelle 1, Tübingen D-72076 Germany. E-mail: frommer@uni-tuebingen.de.**

RESEARCH ASSOCIATE POSITIONS UNIVERSITY OF BERN, PHYSIOLOGY

Positions are available with the following faculty: **E. Niggli, M. Egger:** Calcium signaling and Na-Ca exchange in cardiomyocytes. **S. Rohr:** Impulse propagation and cardiac microarchitecture. Methods employed include patch clamp, photolysis of caged compounds, two-photon confocal microscopy, fast multi-site optical recording using voltage and ion indicators, immunocytochemistry. Experience in some of these techniques is desirable. Designate one or more faculty to receive your curriculum vitae and send to: **Marcel Egger, Department of Physiology, Buehlplatz 5, Bern CH-3012 Switzerland. E-mail: egger@ppl.unibe.ch; website: http://pplwww.unibe.ch.**

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study signal transduction and gene expression related to the pathogenesis of atherosclerosis. Experience in molecular biology, protein biochemistry, and signal transduction preferred. Send curriculum vitae and three references to: **Dr. Xilin Chen, Division of Cardiology, Emory University School of Medicine, 1639 Pierce Drive, Atlanta, GA 30322. FAX: 404-727-3330; e-mail: xchen01@emory.edu.**

POSTDOCTORAL POSITION is immediately available to study mechanisms of synaptic transmission and plasticity in the amygdala. Experience in patch clamp electrophysiology is required. Send curriculum vitae and three letters of recommendation to: **Dr. Vadim Bolshakov, MRC, Room 214, McLean Hospital/Harvard Medical School, 115 Mill Street, Belmont, MA 02478.**

GLOBAL OPPORTUNITIES



National Taiwan University has three faculty positions opened for plant biology at levels from **ASSISTANT to FULL PROFESSORS**. Candidates with training in plant physiology, developmental biology, molecular systematics, or interactions between plants and microbes will be considered. Applicants must have Ph.D. degree, at least two years of postdoctoral experience, fluency in Mandarin, and legal residence in Taiwan. Send curriculum vitae with publication list, statement of interests and plans in both research and teaching, and three reference letters before October 31, 1999, to: **Professor Y. M. Chen, Department of Botany, National Taiwan University, Taipei 106, Taiwan, ROC. FAX: 886-2-23919096; e-mail: yihmingc@ccms.ntu.edu.tw.**

INTERNATIONAL FELLOWSHIP

The Dan Charitable Trust Fund for Research in Biological Sciences provides financial support for collaborative research between Japan and other countries or participation in international conferences or workshops held in Japan. A total of six Fellowships (one- or three-month duration) will be awarded every year. Applications for Fellowships must be submitted to the address listed below by October 31, 1999. For more information, write: **Sakae Asakawa, The Dan Charitable Trust Fund for Research in the Biological Sciences, Nippon Trust Bank, 3-1-8 Nihonbashi, Chuo-Ku, Tokyo 103-8266 Japan. FAX: 03-3281-8339.**

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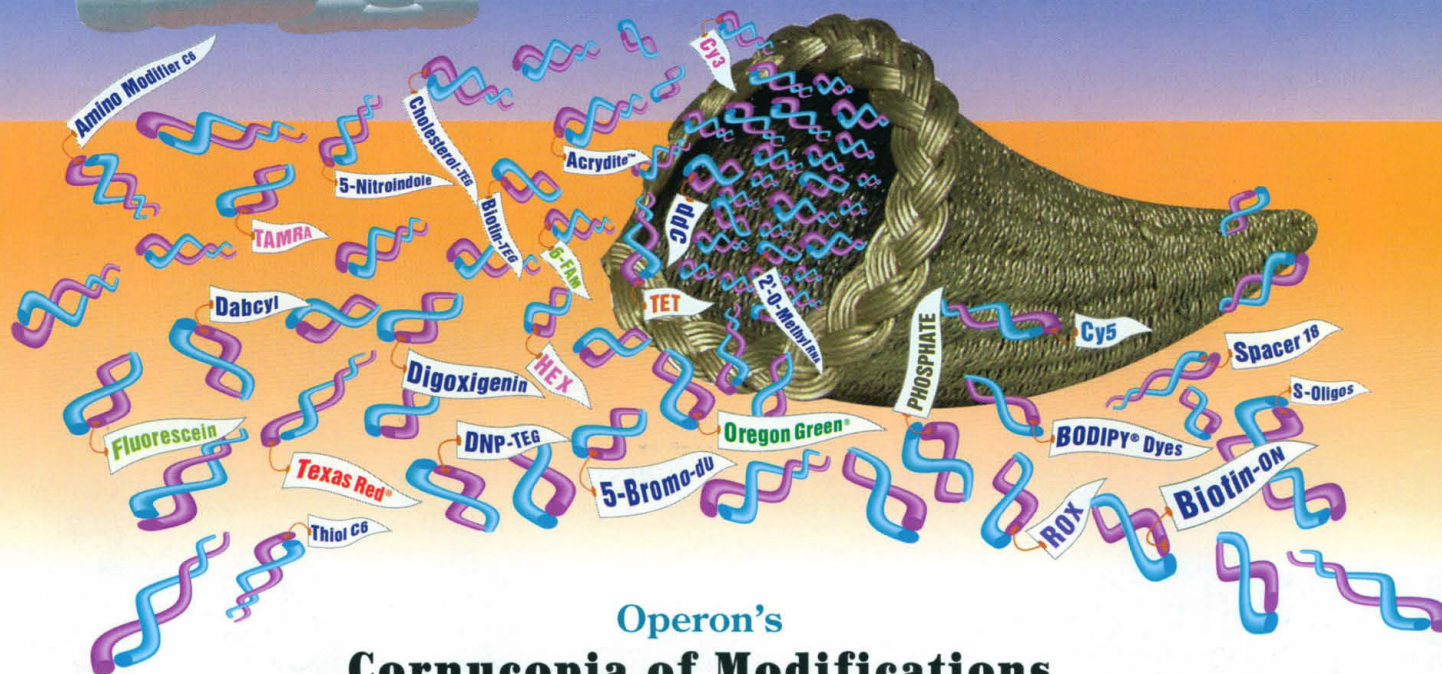
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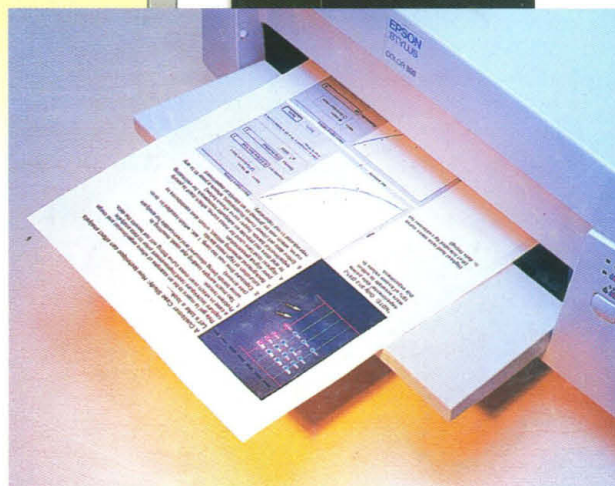
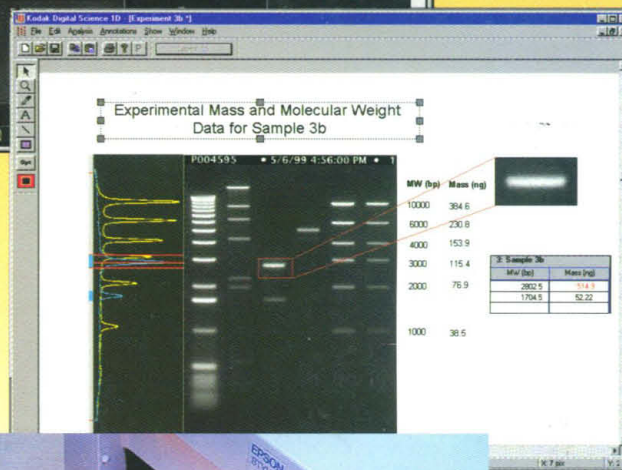
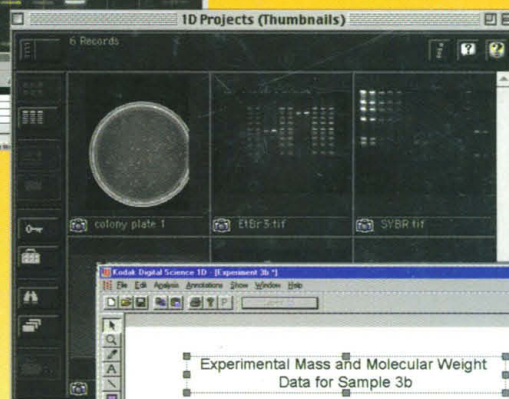
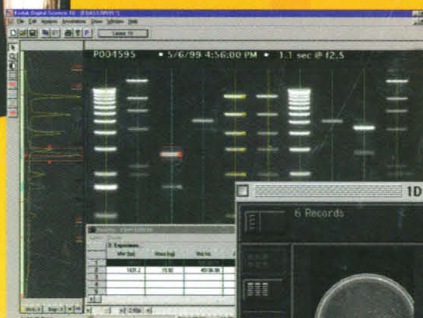
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