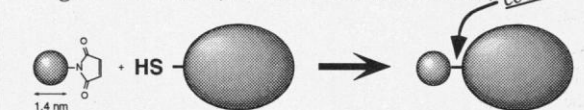
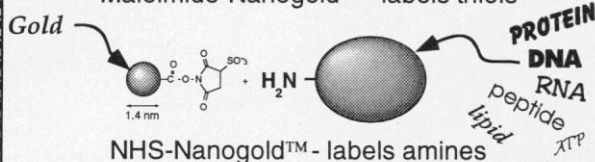


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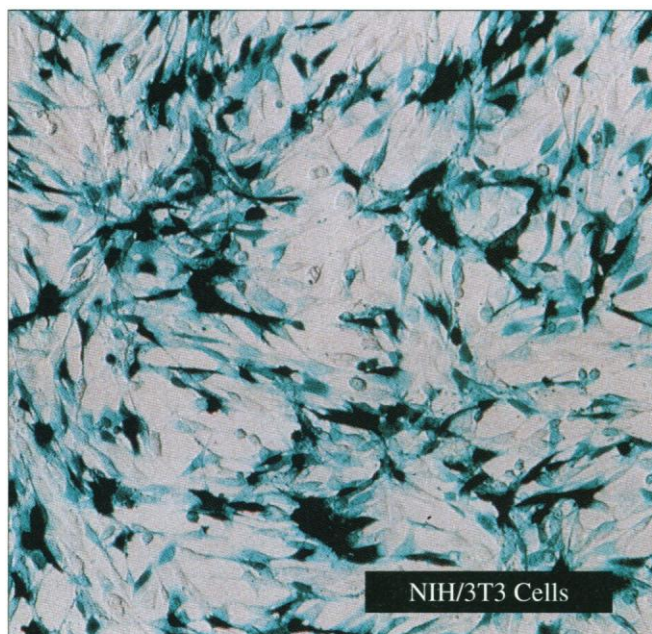
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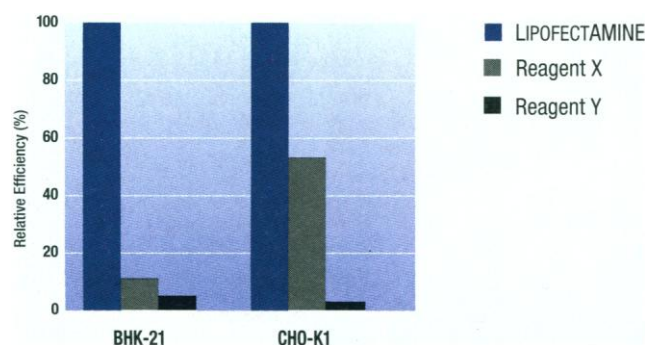


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high tensile microparticles that disrupt nuclei and other cell organelles. It does not bind protein or nucleic acids. The user simply mixes the biological samples with the resin and grinds or homogenizes the sample. Unlike sand and other grinding materials, the resin does not damage genomic DNA or high molecular mass proteins. It can be used with any homogenization technique, including high-speed mechanical grinders and high-energy sonicators. **Geno-Technology.** For information call 314-534-0075 or circle 143 on the reader service card.

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The mAb HA.11 is specific for the hemagglutinin tag. It can be used in protein immunoblots, immunoprecipitations, and immunofluorescence of tagged proteins. A mAb that is specific for Cre-recombinase is effective in immunolocalization and is available as raw ascites fluid and purified antibody. Cre-recombinase is a 38-kD DNA recombinase derived from the P1 bacteriophage that is highly specific for a 34-bp DNA sequence called lox (locus of recom-

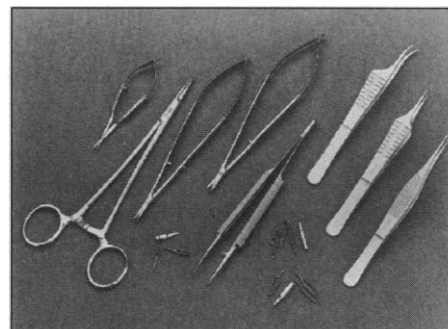
bination) found in the P1 DNA. **Berkeley Antibody, BAbCO.** For information call 800-92BABCO or circle 147 on the reader service card.

## Acrylamide Alternative

Gene-PAGE PLUS, an alternative to traditional acrylamide sequencing gels, is a ready-to-use specialized blend that provides at least 40% more sequence per gel without compromising integrity, according to the manufacturer. By forming a more uniform, mechanically resilient matrix, with even spacing of bands from primer regions to 800 base pairs, it enables the user to read terminating nucleotides more accurately. **Amresco.** For information call 800-829-2805 or circle 148 on the reader service card.

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ceps have rounded handles to allow easy rotation with just two fingers. Researchers commonly must use tools designed for human microsurgery, tools that are often expensive because of the high cost of Food and Drug Administration registration. These products are imported to meet the needs of animal researchers at lower cost. **World Precision Instruments.** For information call 941-371-1003 or circle 149 on the reader service card.

## Literature

*Innovative PCR Plastics* describes a line of polymerase chain reaction products. **Robbins Scientific.** For information call 800-734-8500 or circle 150 on the reader service card.

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### Comparison of stable *gpt* transfections through various methods

Method	Number of Colonies
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Major competitor's liposomal agent	20.9 $\pm$ 2.1
Calcium phosphate	27.3 $\pm$ 2.7

\*The number of *Ecogpt* transformants was determined through quantification of colonies following fixation in 10% neutral phosphate-buffered formalin-saline and staining with 0.05% methylene blue.

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To request application package contact: **Tom Peters, Telephone: 202-761-1763, Email: [thomas.peters@inet.hqasace.army.mil](mailto:thomas.peters@inet.hqasace.army.mil) or Millie Edwards, Telephone: 202-761-1798, Email: [mildred.edwards@inet.hqasace.army.mil](mailto:mildred.edwards@inet.hqasace.army.mil)**. The closing date of this announcement is 31 March 1997.

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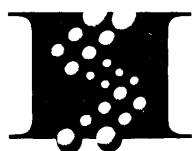
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## POSITIONS OPEN



### CHAIR DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

The University of North Dakota School of Medicine and Health Sciences invites applications and nominations for the position of **CHAIR** of the Department of Microbiology and Immunology. We seek an outstanding medical scientist with a strong research record in immunology, pathogenic microbiology or virology who will complement, expand and strengthen existing areas of research in the Department. The Department's teaching responsibilities for medical students, graduate students and allied health students require leadership from one with knowledge and experience and a deep commitment to education. The applicant should also possess interpersonal and leadership skills in mentoring faculty, directing students and performing administrative duties.

Specific information is available at <http://www.med.und.nodak.edu/depts/microb/home.htm>.

Review of applications will begin March 15, 1997, but the search will remain open until the position is filled. Applicants should submit a detailed curriculum vitae, a statement that addresses administrative philosophy, research goals and teaching interests, and the names and addresses of three references to: **Dr. David W. Hein, Chair of the Department of Pharmacology and Toxicology and Chair of the Search Committee, c/o Office of the Dean, School of Medicine and Health Sciences, University of North Dakota, Box 9037, Grand Forks, ND 58202-9037.**

*The University of North Dakota is an Equal Opportunity/Affirmative Action institution.*

### SENIOR DIRECTOR OF BIOLOGICAL PROGRAMS

This key **SENIOR MANAGEMENT POSITION** directs a set of diverse programs and functions, including animal husbandry, maintenance, conservation, laboratory, medical and research. This position participates on various Board Committees, particularly Animal Policy. He or she represents the Aquarium nationally and internationally on conservation matters and with the media on collection issues.

Requirements include a minimum of ten years related experience, with five years at a senior managerial level; a Bachelor's degree in a related discipline, concentrating on both natural and captive settings; excellent communication skills as demonstrated through publications and participation in professional activities at local, national, and international levels, and proven leadership and managerial skills which should be documented in the materials submitted for consideration. An advanced degree is highly desirable. Please direct all résumés and supporting materials to:

**National Aquarium in Baltimore  
Human Resources Department, Code: SCI  
111 Market Place, Suite 800  
Baltimore, MD 21202**

*Equal Opportunity Employer.*

Southwest State University invites applications to fill a tenure-track position as **ASSISTANT/ASSOCIATE PROFESSOR OF ENVIRONMENTAL SCIENCE** beginning August 1997. Faculty member will teach environmental science, hydrology, soils and special topics relating to environmental issues, particularly as they relate to rural settings. Doctorate is required. Must have demonstrated ability and desire to teach undergraduate studies. Excellent written and oral communication skills are required. Faculty member will serve a leadership role in the recently developed environmental science program; assist in the management of the campus Wildlife Area, and develop research and outreach programs associated with water/soil issues in southwest Minnesota. Application file review begins March 1, 1997 and continues until the position is filled. Send letter of application, résumé, transcripts and name, address and telephone number of three references to: **Personnel Services, Southwest State University, 1501 State Street, Marshall, MN 56258. Email: 507dka@rickyvs.southwest.msus.edu.**

*Southwest State University is an Equal Opportunity Educator and Employer and encourages applications from women and persons of color. Applicants must be able to lawfully accept employment in the United States.*

## POSITIONS OPEN

### OREGON INSTITUTE OF TECHNOLOGY NATURAL SCIENCES FACULTY

Oregon Institute of Technology (OIT), located in the high mountain desert community of Klamath Falls, announces a full-time tenure-track position for an **ASSISTANT PROFESSOR OF NATURAL SCIENCES**. Minimum requirements include a doctorate in chemistry, biology, or environmental science. Teaching responsibilities will include courses in general chemistry, biology, and courses in the Applied Environmental Sciences program. Preference will be given to candidates with a broad interdisciplinary background with emphasis on undergraduate instruction. Development of upper division courses in the environmental sciences is expected, and research projects involving undergraduate students will be encouraged.

OIT offers opportunities to explore non-traditional pedagogies for course delivery, possibilities to interact with other disciplines such as allied health and engineering technologies, and to assume a leadership position within a unique environmental science program. OIT is the administrative headquarters for the Northwest Region of the Partnership for Environmental Technology Education (PETE). For further information about OIT and the Applied Environmental Science Program, please visit our Web page at [www.oit.osshe.edu](http://www.oit.osshe.edu).

Review of applications will commence March 3, 1997 and continue until the position is filled. To apply, submit a letter of application, curriculum vitae, names, addresses, and telephone numbers of at least three professional references, and a statement of academic interests to:

**Personnel Office #97-66012  
Oregon Institute of Technology  
3201 Campus Drive  
Klamath Falls, OR 97601**

For additional information, contact: **Lawrence Powers, Search Chair, Telephone: 541-885-1183.**

### ASSISTANT PROFESSOR DEVELOPMENTAL BIOLOGY Search reopened

A full-time **FACULTY POSITION** is available August 1997 in the Department of Biological Sciences, St. Mary's University, San Antonio, Texas. St. Mary's is a private school of 4,000 students, founded in 1852 and operated by the Catholic order of The Society of Mary. The Department of Biological Sciences specializes in the undergraduate education of students pursuing careers in the health professions, especially medicine. The successful candidate will be required to have an earned Ph.D., research experience with a developmental system like *C. elegans*, *Drosophila*, fish, amphibian, etc., to teach courses in introductory biology for majors and non-majors, to develop upper-division courses in the area of molecular developmental biology, and to participate in grant application, through which release-time can be obtained to conduct research involving undergraduates. Important factors are: a strong commitment to teaching, advising students and aiding in their professional development. All qualified candidates are welcome. Applicants should submit a letter of application, a complete curriculum vitae, typical publications, undergraduate and graduate transcripts, and have letters of recommendation sent by three former supervisors to: **Dr. Rosemarie Wahl, Chair, Department of Biological Sciences, St. Mary's University, One Camino Santa Maria, San Antonio, TX 78228-8511.**

Application deadline: March 14, 1997. *Minorities and women are encouraged to apply.*

### ANATOMIST

The Department of Anatomy, National College of Chiropractic seeks applicants for a **TENURE-TRACK POSITION**. The successful applicant will teach in a problem-based learning curriculum. Specific duties include: instructing in gross and neuroanatomy lecture and laboratories, facilitating small groups, and engaging in scholarly activity. Applicants should have a Ph.D. or equivalent (postdoctoral experience is desirable). The successful candidate will join a congenial faculty, dedicated to teaching excellence and active scholarship. Applicants should submit curriculum vitae, graduate and undergraduate transcripts, reprints (up to five), a list of three personal references, and a brief description of teaching and scholarly goals by March 17, 1997 to: **Dr. Gregory Cramer, Chair, Anatomy Search Committee, The National College of Chiropractic, 200 East Roosevelt Road, Lombard, IL 60148.**

## POSITIONS OPEN



### THE CLEVELAND CLINIC FOUNDATION

#### THE CLEVELAND CLINIC RESEARCH INSTITUTE FACULTY POSITION IN RENAL CELL BIOLOGY/ PHYSIOLOGY RESEARCH

We are seeking an individual at the level of **ASSISTANT, ASSOCIATE OR FULL PROFESSOR** to establish a basic laboratory research program in renal cell biology/physiology. The position is jointly sponsored by the Research Institute and the Department of Urology—a partnership which has previously established research programs in renal cell carcinoma and transplantation. The successful candidate (Ph.D. or M.D.) will possess, or exhibit the potential to develop, an outstanding national reputation as a basic scientist using state-of-the-art cellular/molecular approaches to study kidney function or renal diseases. Generous start-up support and a highly competitive salary and fringe benefits will be provided. The Cleveland Clinic Research Institute, comprised of over 90 independent investigators and over 600 employees, has a long-standing commitment to excellence in basic and applied biomedical research with an annual budget in excess of \$50 million. The Department of Urology is a nationally recognized center of excellence for kidney disease.

Send curriculum vitae and names and addresses of three references to: **Dr. Paul E. DiCorleto, Chair, Department of Cell Biology, NC10, Cleveland Clinic Research Institute, 9500 Euclid Avenue, Cleveland, OH 44195.**

*The Cleveland Clinic Foundation is an Equal Opportunity Employer.*

#### ASSISTANT PROFESSOR, PLANT MOLECULAR BIOLOGY DEPARTMENT OF PLANT SOIL SCIENCES

Twelve month, **TENURE-TRACK**, 80% research, 20% teaching. Salary commensurate with qualifications. Ph.D. in plant biology with postdoctoral or equivalent experience. Qualified applicants must have a comprehensive understanding of and demonstrated research creativity and productivity in plant molecular biology/genetics. Applications in all areas of plant molecular biology will be considered. Individuals with interests in development, transformation, gene expression, and plant-microbe interactions are encouraged to apply. The individual selected for this position must develop a strong, contemporary, extramurally-funded research program comprised of both independent and collaborative research. The individual would have the opportunity to interface with a world-class effort in high throughput gene expression analysis undertaken as major initiative of the new Center for Agricultural Biotechnology. A strong commitment to advising and teaching undergraduate and graduate students is important. The University participates in a group major medical and hospital insurance plan, TIAA retirement, and limited tuition remission. Send a letter of application, curriculum vitae, a list of three to five references, copies of key publications, and a brief description of current research interests by March 31, 1997 to: **Dr. Jim Hawk, Search Committee Chair, Department of Plant and Soil Sciences, University of Delaware, Newark, DE 19717-1303.**

#### VICE-PRESIDENT RESEARCH AND DEVELOPMENT

EnzyMed, Inc. is a leader in the synthesis and optimization of new pharmaceutical and agrochemical compounds. Proprietary technology built on combinatorial biocatalysis using an integrated approach that combines iterative enzymatic and microbial reactions with chemistry to produce naturally diverse libraries.

Ph.D. in Medicinal Chemistry or related field with 10 years experience in drug discovery. Understanding of combinatorial chemistry and biotransformations important. Knowledgeable regarding strategic drug development issues. Responsible for interdisciplinary scientific staff, reporting to the President.

EnzyMed, Inc. is a fast-growing company offering great location and compensation. For confidential consideration, send résumé and salary history to: **EnzyMed, Inc., Attn: Human Resources, 2501 Crosspark Road, Suite C-150, Iowa City, IA 52242. Equal Opportunity Employer.**



## POSTDOCTORAL FELLOWSHIPS

Two positions, a postdoctoral fellowship and a research associate, are available in the Laboratory of Epithelial Cell Biology of the Nemours Research Programs. The primary focus of the laboratory is the regulation of chloride channel activity in cystic fibrosis. The positions, available immediately, require a PhD in biochemistry or related field and experience with tissue culture. In addition experience with in vivo protein labeling, peptide mapping, mammalian expression systems, or electrophysiology would be helpful. The laboratory is located at the duPont Hospital for Children in Wilmington, DE and is part of the Pediatrics Dept. of Thomas Jefferson University. duPont offers competitive salaries and benefits packages. Send curriculum vitae and names of three references to: **Dr. William Reenstra, Dept. of Clinical Science, duPont Hospital for Children, P.O. Box 269, Wilmington, DE 19899.** A.I. duPont Institute is an Equal Opportunity/Affirmative Action Employer.



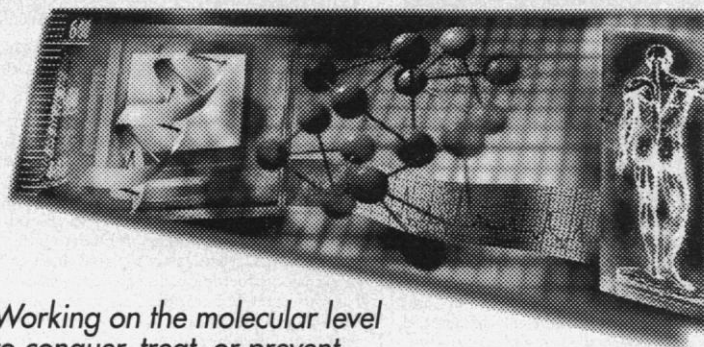
## NEW TENURED TRACK POSITION IN DIABETES RESEARCH

The Department of Pediatrics at the **Medical College of Wisconsin** and Children's Hospital of Wisconsin is pleased to announce a new and exciting opportunity for a qualified basic investigator in the area of Type I diabetes research. This new position is made possible in part by funding from the Max McGee Juvenile Diabetes Research Center, a new activity in the Department of Pediatrics. The goal of this Center is to contribute new basic research discoveries which will lead to a cure for Type I diabetes.

The candidate should have a proven track record of nationally recognized research advances related to Type I diabetes. The position offers outstanding opportunities for collaborations in basic and clinical research. Molecular biology is a major priority in our medical school's strategic plan and is a growing enterprise on our campus.

The hospital is in suburban Milwaukee and shares an outstanding campus with the medical school, the adult-based hospital and the Blood Research Institute of Wisconsin. Children's Hospital of Wisconsin is an exciting academic environment and a full service children's hospital with a large and comprehensive clinical program in Type I diabetes mellitus. Salary commensurate with rank, experience and scientific accomplishments. The **Medical College of Wisconsin** is an equal opportunity/affirmative action employer M/F/D/V.

Prospective candidates should send CV plus names, addresses and phone numbers of 3 references to: **Kenneth McCormick, M.D., Medical College of Wisconsin, MACC Fund Research Center, 8701 Watertown Plan Road, Milwaukee, WI 53226.**



*Working on the molecular level  
to conquer, treat, or prevent  
debilitating diseases.*

## DRUG DISCOVERY RESEARCH AT SCHERING-PLOUGH

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

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AUTOMATED DATA MANAGEMENT**

### SENIOR SCIENTIST

We seek a talented Biochemist to join a team of professional scientists involved in automated high throughput screening for novel therapeutic entities. To qualify, you will need a PhD in Biochemistry or related discipline and at least 2-4 years of experience. Background must include statistical evaluation of experimental data, automated data management and programming in Visual Basic, Visual C++ or their equivalent. Expertise in biochemical assay development and laboratory automation is very helpful. Excellent organization and communication skills are essential. To be considered for this position please respond to Dept. DD-97-01-KB.

### ASSISTANT/ASSOCIATE SCIENTISTS

We seek talented biochemists to join a team of professional scientists involved in automated high throughput screening for novel therapeutic entities. To qualify, you will need a BS in Biochemistry or related discipline and at least 2 years of experience or an MS degree. Background in the development of quantitative enzyme and/or receptor binding assays using modern assay technologies is highly desirable. Expertise in laboratory automation and/or applications programming using Visual Basic is very helpful. Excellent organization and communication skills are essential. To be considered for this position, please respond to Dept. DD-97-02-KB.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume indicating the Dept. Code for your position of interest and salary requirements to: Human Resources-KB, Schering-Plough Research Institute, 2015 Galloping Hill Road, K-15, Kenilworth, NJ 07033-0539. You may also respond via e-mail to: [sprl@spcorp.com](mailto:sprl@spcorp.com). Please include the Department Code for your position of interest in the Subject Line. We are an equal opportunity employer. *We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.*



**Schering-Plough  
Research Institute**

Using Science for Human Advantage

## POSITIONS OPEN

### FACULTY POSITIONS IN PHARMACOLOGY AND PHYSIOLOGY UNIVERSITY OF ROCHESTER

The Department of Pharmacology and Physiology at the University of Rochester Medical Center invites applications for three new tenure-track positions to be filled at the **ASSISTANT PROFESSOR** level. Candidates qualified for higher ranks will also be considered. Applicants must have earned the Ph.D. or M.D. degree and have completed significant postdoctoral training. Preference will be given to applicants whose research interests complement existing departmental strengths in the areas of cell signaling, ion-channel function, and cell injury and cell death, although outstanding candidates with general research interests in neuropharmacology and cardiovascular pharmacology will also be considered. The University of Rochester Medical Center has recently announced plans for a major expansion of research activities in aging and development, cancer, and vaccine biology and immunology. Applicants whose research interests relate to these areas are particularly encouraged to apply. The successful candidates will be expected to develop independent, extramurally funded research programs and to participate fully in graduate and professional teaching programs. Review of candidates will begin immediately and will continue until the positions are filled. Applicants should send their curriculum vitae, three recent reprints, a statement of research interests and plans, and the names of three referees to: **Dr. Trevor J. Shuttlesworth, Chair, Faculty Search Committee, Department of Pharmacology and Physiology, University of Rochester Medical Center, Box 711, 601 Elmwood Avenue, Rochester, NY 14642.** For information about the Department, see Web site: <http://www.pharmacol.rochester.edu>. The University of Rochester is an Equal Opportunity/Affirmative Action Employer. Applications from women and underrepresented minorities are encouraged.

### DEPARTMENT OF HUMAN GENETICS MEDICAL COLLEGE OF VIRGINIA/ VIRGINIA COMMONWEALTH UNIVERSITY TENURE TRACK/ASSISTANT OR ASSOCIATE PROFESSOR

The Department of Human Genetics at the Medical College of Virginia/Virginia Commonwealth University is seeking applications for a tenure-track position at the rank of **ASSISTANT OR ASSOCIATE PROFESSOR**. We are seeking a person who could establish and direct an independent research program that would interact with existing areas of strength in the Department. The Department currently includes faculty with expertise in Genetic Epidemiology, Molecular Genetics, Biochemical Genetics, Cytogenetics and Clinical Genetics, and sponsors active research programs on twins, animal models of human disease, seizures, nondisjunction, gene mapping, behavioral genetics, cancer genetics, gene regulation, metabolic disease, and hereditary deafness. The candidate must hold a doctoral degree with at least two years of postdoctoral training and research experience in a relevant area of human genetics and would be expected to participate fully in the teaching activities of the Department. Interested candidates should send a curriculum vitae, three letters of reference, and a description of their research interests by April 30, 1997 to: **Walter E. Nance, M.D., Ph.D., Chair of the Search Committee, at the Department of Human Genetics, MCV/VCU, P.O. Box 980033, Richmond, VA 23298-0033.**

*Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women, minorities and persons with disabilities are encouraged to apply.*

**ECOTOXICOLOGIST: ASSISTANT PROFESSOR** of Environmental and Resource Sciences at the University of Nevada Reno (UNR), 12-month tenure-track appointment (50% research, 50% instruction). Successful candidate will augment programs in environmental science and conservation biology by developing undergraduate and graduate courses, building nationally competitive research program, and participating in graduate programs. Candidates with interests in arid lands are encouraged to apply. Ph.D. required, postdoctoral training preferred. Applications must be postmarked by April 4, 1997. Send letter of interest, curriculum vitae, copies of transcripts, statements of teaching and research interests, relevant publications, and three letters of reference to: **Ecotoxicology Search Committee, c/o Ms. Jean Freestone, UNR, Environmental and Resource Sciences/186, Reno, NV 89557-0187.** UNR web site is <http://www.unr.edu>. Equal Opportunity Employer/Affirmative Action.

## POSITIONS OPEN

### CENTER FOR BLOOD RESEARCH HARVARD MEDICAL SCHOOL ASSISTANT PROFESSOR

The Center for Blood Research at Harvard Medical School is seeking to recruit an **ASSISTANT PROFESSOR**. This is a tenure-track position. Laboratory space within the Center for Blood Research is located in the Warren Alpert Building on the main quadrangle at Harvard Medical School. The Center for Blood Research is recruiting an outstanding candidate (Ph.D., M.D./Ph.D., or M.D.) who has completed three-to-five years of relevant postdoctoral or independent research, and who has the capability of directing a rigorous independent research program in areas relevant to the immune system, leukocyte development and trafficking. The position offers significant scientific and scholarly resources and the candidate will participate in teaching graduate students, medical students, and postdoctoral fellows.

Applicants should send their curriculum vitae, statement of research interests, and the names of four references to:

**Dr. Timothy A. Springer  
Search Committee Chair  
Center for Blood Research  
200 Longwood Avenue  
Room 251  
Boston, MA 02115**

*The Center for Blood Research is an Equal Opportunity/Affirmative Action Employer.  
Women and minorities are encouraged to apply.*

The College of Pharmacy at Washington State University (WSU) has an annual, tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** in pharmaceutical sciences position available July 1, 1997 or later. Salary/appointment commensurate with experience. Qualifications include Ph.D. and/or M.D. Research emphasis in immunology, immunotoxicology, or immunopharmacology is required with experience in the effects of alcohol on the immune system preferred. It is expected that the successful candidate will establish and maintain an extramurally funded research program. Duties include sustaining an independent extramurally funded research program, taking an active role in the development of an alcohol and immunology research core in the College of Pharmacy, teaching and directing graduate students in the pharmacology/toxicology graduate program, and providing instruction to pharmacy students in the professional doctorate program. In addition, the candidate is expected to participate in the NIH-funded training grant in alcohol/immunology. Application deadline is April 18, 1997. Applications should include a curriculum vitae and a statement of research interests and professional goals. Please have three letters of reference sent independently to the chair of the search committee. Send application to: **Gary G. Meadows, Ph.D., Chair, Search Committee, WSU College of Pharmacy, P.O. Box 646510, Pullman, WA 99164-6510. Telephone: 509-335-4753; Email: meadows@mail.wsu.edu.** Washington State University is an Equal Opportunity Employer and Employer. Protected group members are encouraged to apply.

### MICROBIAL BIOLOGY UNIVERSITY OF PENNSYLVANIA

The Department of Biology, University of Pennsylvania, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in the general area of microbial biology. Problems of interest include basic mechanisms of prokaryotic and eukaryotic (yeast, protozoa, Chlamydomonas) genetics and cellular biochemistry, as well as host-microbe interactions. The department has strong programs in cell, developmental and molecular biology, plant biology, and ecology and evolution, and candidates whose interests complement one of these areas are encouraged to apply. Candidates should have a Ph.D. and postdoctoral experience and will be expected to develop an active research program and to teach at an undergraduate and graduate level. Applicants should submit a curriculum vitae, a statement of their research and teaching interests, and have three letters of recommendation sent to the following address by March 15. The starting date of the position is negotiable.

**Microbial Biology Search Committee  
Department of Biology  
University of Pennsylvania  
Philadelphia, PA 19104-6018**

*The University of Pennsylvania is an Equal Opportunity Employer.*

## POSITIONS OPEN

### YALE UNIVERSITY SCHOOL OF MEDICINE DEPARTMENT OF CELLULAR AND MOLECULAR PHYSIOLOGY JUNIOR or SENIOR FACULTY POSITION

Applications are solicited for a tenure-track position at the rank of **ASSISTANT (term), ASSOCIATE (term or tenure) or FULL PROFESSOR (tenure)** in the Department of Cellular and Molecular Physiology, Yale University School of Medicine. The candidate's research interest should be in the general area of cellular and molecular physiology. We are particularly interested in individuals working on cellular and molecular neuroscience as well as the structural biology of ion channels, ion transporters, or other membrane proteins. The successful candidate is expected to maintain an independent research program. Opportunities are available for collaborative research as well as for graduate and medical student teaching.

A complete curriculum vitae, a statement of research interests and goals, and three letters of reference should be sent by April 15, 1997 to:

**Dr. Walter F. Boron, Chair  
Department of Cellular and Molecular Physiology  
333 Cedar Street  
P.O. Box 3333  
New Haven, CT 06510**

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

### BIOCHEMISTRY AND CELL/MOLECULAR BIOLOGY AUBURN UNIVERSITY

Tenure-track **ASSISTANT/ASSOCIATE/FULL PROFESSOR**. Minimum requirements are a Ph.D. and postdoctoral training in biochemistry or a related biomolecular field and competence with contemporary molecular approaches relevant to agricultural and biomedical sciences. The successful candidate will establish an independent, extramurally-funded research program in growth and development regulation and/or signal transduction in animals, work collaboratively with other researchers and contribute to excellence in biochemistry instruction. Associate/Full Professor rank requires a record of research funding including current extramural support and accomplishments in teaching. Position includes competitive salary, start-up funds, space and technical support. Applicants should submit a letter of interest, current curriculum vitae, list of coursework, research plan, teaching experience, selected reprints, and names, addresses, and telephone numbers of four professional references to: **Biochemistry Search, Dr. Werner G. Bergen, Department of Animal & Dairy Sciences, 209 ADS Building, Auburn University, AL 36849-5415. Telephone: 334-844-1523; FAX: 334-844-1519. Email: wbergen@acesag.auburn.edu.** Review of applications is ongoing and will continue until a qualified applicant is selected.

*Auburn University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*

### FACULTY POSITION AT BRIGHAM & WOMEN'S HOSPITAL AND HARVARD MEDICAL SCHOOL MOLECULAR ASPECTS OF PAIN

Applications are invited for a tenure-track position at **ASSISTANT OR ASSOCIATE PROFESSOR** level, to join a multidisciplinary group studying the basic mechanisms and pharmacotherapies of acute and chronic pain. We have a particular interest in molecular biological, immunological and morphological approaches. Applicants for the position should have an established, independently funded research program. Generous start-up support is available. Space will be provided at a level commensurate with the size of the applicant's existing extramural support. Academic rank will be commensurate with experience and status. The successful candidate will join the Anesthesia Research Laboratories comprised of 15 independent investigators working in pain research, molecular neuropharmacology, and ischemia and reperfusion injury.

Applicants should send a letter describing their interests, curriculum vitae, and the names of three references to: **Professor Igor Kissin at the Department of Anesthesia, Brigham & Women's Hospital, 75 Francis Street, Boston, MA 02115.**

*Brigham & Women's Hospital and Harvard Medical School are Equal Opportunity/Affirmative Action Employers. Women and minority candidates are especially encouraged to apply.*



# Drug Metabolism & Pharmacokinetics

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

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

## Ph.D. Research Scientists

You will interact in a project area with a multidisciplinary team including chemists, biologists and clinicians where drug metabolism and pharmacokinetic input is essential to the discovery and development of new drugs.

Additionally, you will work with some of the most advanced equipment and support systems available. Qualified candidates will have a Ph.D. or equivalent in chemistry, biochemistry or biological sciences and superior interpersonal and oral/written communication skills. Experience in pharmacokinetics, drug metabolism, analytical chemistry and in vitro metabolism techniques would be an asset. Practical experience with bioanalytical methods and biotransformation of drugs is highly desirable. **Job Code: 2064**

## BS/MS Scientists

As a member of a multidisciplinary project team, you will be involved in the discovery and development of novel drugs. The major focus will be conducting in vivo and in vitro drug metabolism and pharmacokinetic studies. Functions will include utilization of in vivo and in vitro techniques, administration of drugs to test animals, collection of biological samples and development/ utilization of bioanalytical methods for monitoring drugs and metabolites using state-of-the-art technology. A BS or MS in chemistry, biochemistry or biological sciences and strong interpersonal and oral/written communication skills are required. Experience in HPLC, LC/MS and/or in vitro metabolism techniques (microsomes, slices and recombinant enzymes) is desirable. **Job Code: 2065**

## BS/MS Scientists

### Cell Culture

As a member of a team of drug metabolism scientists, you will be involved in evaluating and developing new biological techniques to conduct drug metabolism and pharmacokinetic studies. A BS or MS in biochemistry, molecular biology or biological sciences and strong interpersonal and oral/written communication skills are required. The candidate must demonstrate basic knowledge of cell culture techniques and have experience in one or more of the following: primary cell culture preparation, protein/DNA/RNA preparation and analysis (e.g., Westerns, Northern), pharmacokinetics, in vitro/in vivo drug testing and handling of radiochemicals. Familiarity with standard Macintosh/PC programs and proven written and oral communication skills a must. Experience with analytical instrumentation (HPLC, LC/MS) is desirable. **Job Code: 2066**

## BS/MS Scientists

### Biotransformation-Mass Spectrometry

As a member of a team of drug metabolism scientists, you will be involved in the isolation and identification of drug metabolites in biological fluids using state-of-the-art chromatography/mass spectrometric instrumentations. A BS or MS in analytical chemistry, medicinal/organic chemistry and strong interpersonal and oral/written communication skills are required. Experience in HPLC, LC/MS, radiotracer studies, laboratory computers and database management software and/or in vitro metabolism techniques (microsomes, slices and recombinant enzymes) is desirable. **Job Code: 2067**



*We're part of the cure.*

## NATIONAL INSTITUTES OF HEALTH

### NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM ETHANOL PHARMACOKINETICS

Projects are underway to explore the effect of genotype, gender, and body composition on ethanol metabolism in humans and to determine changes in oxidative-reductive pathways with long-term ethanol consumption in rats. Applicants should have a strong background in quantitative analytical techniques and/or molecular biology, a Ph.D. and/or M.D. and less than five years postdoctoral experience. Address inquiries to **Susan Shoaf, Ph.D., Chief, Unit of Pharmacokinetic Studies, Laboratory of Clinical Studies, NIAAA, 10 Center Drive, MSC-1256, Bethesda, MD 20892-1256; (301) 496-4936; or shoaf@clinpharm.niaaa.nih.gov.** The NIH is an Equal Opportunity Employer.

## MEETINGS

### THE 9TH NATIONAL COOPERATIVE VACCINE DEVELOPMENT GROUP (NCVDG) MEETING: Advances in AIDS Pathogenesis and Preclinical Vaccine Development

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This meeting will focus on mechanisms of HIV/SIV transmission, AIDS vaccine development, mucosal immunity, novel vaccines/ adjuvants, and primate and human vaccine studies  
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**May 4-7, 1997, NIH Campus, Bethesda, MD**

**Abstract Deadline: March 15, 1997**

Registration is limited. Register early to ensure that your poster and abstract can be included in the program. For abstract forms and meeting information, contact:

Infoteq c/o Mr. Casey Floyd  
(301) 565-4020 (ph)  
(301) 587-4138 (fx)

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# Imagine The Possibilities

At Berlex, we've built our reputation on FDA-approved product successes and a proven track record in the pharmaceutical industry. Currently, our Cardiovascular Research Department is seeking a Postdoctoral Fellow to join us in the beautiful San Francisco Bay Area.

## Postdoctoral Fellow Cardiovascular Research

This postdoctoral position will study novel proteases in thrombosis and hemostasis. Approaches include gene expression, site-directed mutagenesis, enzymatic assays and gene targeting. Applicants should have a background in mouse genetics and histology; experience in vascular biology and molecular biology would be an advantage.

To apply, send your curriculum vitae, a statement of research interests and the names of three references to the attention of QINGYU WU, DEPARTMENT OF CARDIOVASCULAR RESEARCH, BERLEX, 15049 SAN PABLO AVE., RICHMOND, CA 94804-0099. Principals only, please. EOE.

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THE BEST IS YET TO COME

# TRANSGENIC MOUSE MODELS

**SAIC Frederick**, a division of Science Applications International Corporation and an employee-owned company, has an immediate opportunity under the direction of Dr. Lionel Feigenbaum in the Transgenic Mouse Models Laboratory at the NCI's Frederick Cancer Research & Development Center (NCI-FCRDC) located in Frederick, MD.

**Sr. Research Associate**  
Technician position for an MS degree (molecular biology) with 5 years experience in manipulating mouse embryos to derive transgenic mice. **MUST** be skilled in tail DNA extraction; Southern blot, PCR, and slot blot analyses to identify transgenic mice; and

Northern/Western blots to analyze transgene expression. Some supervisory and training responsibilities.

You'll work in a campus-like setting near Baltimore and Washington, D.C. **SAIC Frederick** offers an attractive salary and fringe benefits program, including insurance, 401(k) savings plan, stock purchase program, relocation assistance and more. For consideration, forward resume, references and salary requirements to: Barbara J. Norton-Gill, Technical Recruiter, **SAIC Frederick**, NCI-FCRDC, PO Box B, Frederick, MD 21702-1201; e-mail: hr@mail.ncicrf.gov

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International Corporation

EOE

M/F

## Teasley Professorship in Environmental Biology Georgia Institute of Technology

The School of Biology at Georgia Tech invites nominations and applications for a new endowed professorship in environmental biology. We are seeking candidates who have achieved international prominence in an area of environmental biology including microbial ecology or chemical ecology. He or she will be expected to conduct a vigorous program of research, and actively participate in the School's undergraduate and graduate teaching programs.

The School of Biology offers B.S., M.S., and Ph.D. degrees in the biological sciences. It has approximately 360 undergraduate majors, and 45 graduate students. The administration has approved a strategic plan that includes a commitment for a significant expansion of the biological sciences including several endowed professorships, and new research buildings.

Significant opportunities for collaborative interactions are available through interdisciplinary centers involving faculty in Biology, Chemistry and Biochemistry, Earth and Atmospheric Sciences, Civil and Environmental Engineering, and the Petit Institute of Bioengineering and Biosciences.

Applications should include a curriculum vitae, names of three references, and a letter describing research and teaching interests. Nominations and applications should be sent to **Professor Roger M. Wartell, Teasley Professorship Search Committee, College of Sciences, Georgia Institute of Technology, Atlanta, GA 30332.** *Georgia Institute of Technology is an Affirmative Action/Equal Opportunity Employer.*

**Quality Biotech Inc.**, a leading international biotechnology service company, engaged in contract research and biosafety testing for the biopharmaceutical industry, has the following openings in our Testing and Research Dept.

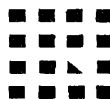
### Director, Molecular Biology

You will be responsible for overseeing a number of established molecular assays which are performed in strict compliance with GLP/cGMP guidelines and for the development and implementation of new assays using novel and emerging technologies. Duties will include managing the group's technical staff, protocol development, data interpretation/analysis and serving as Study Director. In addition, you'll support our technical sales effort and interact with clients and regulatory authorities. Qualified candidate should have a Ph.D. in Molecular Biology or a related field plus 5 to 8 years relevant experience which should include managing a laboratory staff, a record of independent scientific leadership and excellent communication skills. Familiarity with FDA regulations and Biotech drug development process is desirable.

### Senior Scientist—Viral Validation

We seek a Scientist to be involved with the design and implementation of customized protocols for validation of virus removal and inactivation by biopharmaceutical and blood product manufacturing processes. You will be responsible for the development of mammalian virus assays, the production of virus stocks and you'll be involved with a wide variety of purification procedures including chromatography, filtration, and various inactivation methods. You should have experience in virology, cell culture and standard protein purification methods. A Ph.D. in Virology, Microbiology, Cell Biology or Molecular Biology and postdoctoral training required. Supervisory experience a plus.

Quality Biotech Inc. is located in the Greater Philadelphia Region—an area rich in scientific, cultural and recreational diversity. We offer excellent opportunities for professional growth, a competitive salary, relocation assistance, health benefits and 401(k) plan. Please send résumé with salary requirements, to: **Quality Biotech Inc., Human Resources -SM297, 1667 Davis Street, Camden, NJ 08104. FAX (609) 342-8078. EOE M/F/D/V**



**Quality Biotech®**  
Biotechnology Testing Services



## DISCOVER SUGEN:

A LEADER IN SIGNAL TRANSDUCTION RESEARCH

*SUGEN, Inc., is a biopharmaceutical company focusing on the development of new classes of small molecule drugs which interact in a specific manner with different members of the tyrosine kinase, tyrosine phosphatase, and serine-threonine kinase families of signal transduction molecules, and their signaling pathways. These pathways are involved in a number of human diseases, including cancer and diabetes, as well as disorders of the body's immune defenses and neurological systems. The Company has research and development collaborations with Zeneca and Astra Medica, as well as two Collaborative Research and Development Agreements (CRADAs) with the National Cancer Institute. We are seeking the following individuals to contribute to our growing immunology effort:*

### SCIENTIST/GROUP LEADER

#### Immunology Research

We are seeking an individual to be an integral part of a highly motivated research program focused on new target identification and validation. The successful candidate must possess at least 3 years of postdoctoral experience in Immunology with a strong background in molecular biology and/or biochemistry. Preference will be given to those with experience in signal transduction pathways mediating immune responses. Respond to Dept. IMM.

### RESEARCH ASSOCIATE/ ASSOCIATE SCIENTIST

#### Immunology Drug Development

We seek a motivated individual to contribute to our *in vivo* evaluation of candidate immunomodulating compounds. This individual will be responsible for evaluating and selecting relevant models, and examining the *in vivo* efficacy of our compounds on appropriate models. The successful candidate will possess a BS/MS degree in Immunology or related field (Research Associate), or a recent PhD (Associate Scientist), and have experience with *in vivo* models such as delayed type hypersensitivity, skin graft rejection, and passive cutaneous anaphylaxis. Respond to Dept. JP.

We offer competitive salary and benefits, including stock options. Please send your C.V./resume, indicating the corresponding Dept., to: Human Resources, DEPT.\_\_\_\_, SUGEN, Inc., 351 Galveston Dr., Redwood City, CA 94063. EOE.

**SUGEN, Inc.**

## Tularik...

### Creating Drugs That Regulate Genes

Headquartered in a new 66,000 square foot, state of the art research facility in the San Francisco Bay Area, **Tularik Inc.** is a privately held biotechnology company focused on the discovery and development of novel small molecule drugs that act through the regulation of gene expression. Tularik has projects in the areas of viral diseases, inflammation, hypercholesterolemia, immune disorders, obesity and bacterial diseases. Tularik's continued growth and outstanding research culture has created a rare opportunity for a select group of dedicated individuals to help us shape the future of human therapeutics.

## ANIMAL PHARMACOLOGIST

We are looking for experienced pharmacologists to build our Pharmacology and Preclinical Development group. Applicants must have a Ph.D. in Pharmacology and a minimum of 5 years of industry experience. Successful candidates will have hands-on experience in the design and implementation of animal experiments relevant to cancer, inflammation and infectious diseases to evaluate early drug leads and guide preclinical development.

In addition to an exciting environment, competitive salary, comprehensive benefits and equity participation, we offer experienced leadership and a stimulating research environment that encourages scientific publication and recognizes achievement. To be considered for these exciting positions, please send, fax or e-mail your resume to:

**Dr. Pieter B.M.W.M. Timmermans**  
VP, Pharmacology & Preclinical Development  
Tularik Inc., Attn: Job# SCP1  
Two Corporate Drive  
South San Francisco, CA 94080  
Fax: (415) 829-4303  
email: [timmermans@tularik.com](mailto:timmermans@tularik.com)

equal opportunity employer



**Tularik**

## POSTDOCTORAL FELLOWS

### MOLECULAR GENETICS

Amgen, the world leader in biotechnology, has immediate career opportunities available for two outstanding Postdoctoral Fellows at our expanding **Southern California** facility — uniquely located about one hour from both **Santa Barbara** and downtown **Los Angeles**.

### TELOMERASE AND CANCER

The selected individual will study the molecular biology and biochemistry of mammalian telomerase in cancer. Molecular Biology, RNA/protein interactions and *in vitro/in vivo* cancer models expertise is preferred.

### FUNCTIONAL GENOMICS, MOLECULAR NEUROBIOLOGY

The successful candidate will study the function of novel secreted proteins or receptors transcriptionally induced in the hippocampus by neuronal activity. Expertise in Molecular Biology is required. Neurobiology, developmental biology or protein chemistry experience is desired.

**We value and encourage the diverse perspectives essential to the process of discovery.**

At Amgen, your accomplishments are rewarded. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center and three weeks' vacation. For immediate consideration, mail your resume to: **Amgen, Staffing, Job Code: TPSC, P.O. Box 2569, Thousand Oaks, CA 91319-2569. E-mail: [jobs@amgen.com](mailto:jobs@amgen.com).** Principals only, please. Visit our new web site at: **[www.amgen.com](http://www.amgen.com)** for detailed information on other opportunities.

EEO/AA Employer M/F/D/V

**AMGEN®**

# NMR SPECTROSCOPIST

SmithKline Beecham is an international leader in research and development, built on the excellence and commitment of our employees. An opportunity currently exists for an NMR Spectroscopist to join our team.

The selected candidate will perform NMR spectroscopy experiments, including magic angle spinning (MAS) NMR, LC-NMR and NMR imaging experiments to develop new applications of NMR to drug discovery and to execute program related research in NMR spectroscopy and imaging. Our NMR group has a state-of-the-art facility with two 500 MHz spectrometers and one 400 MHz NMR spectrometer with micro-imaging accessories and a 200 MHz/40 cm imaging instrument, with well-equipped data analysis and electronics laboratory. The data analysis laboratory consists of a series of UNIX, SGI and Sparc workstations.

Qualified candidates will have an MS in Physics, Chemistry or Biochemistry and a strong experimental background in 1D and 2D NMR techniques, including familiarity with home-built probes, and their application to chemical and biological problems. Familiarity with NMR imaging techniques is a definite plus.

Located in our technologically advanced research and development facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits package and a stimulating work environment in which to grow and excel. For confidential consideration, please forward a resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code 07-0051, P.O. Box 2676, Bala Cynwyd, PA 19004. For more information on SmithKline Beecham, visit our Website at <http://www.sb.com>. We are an Equal Opportunity Employer, M/F/D/V.



**SmithKline Beecham**  
Pharmaceuticals

Challenging the natural limits

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Research Biologists (2)

### Signal Transduction in Reproduction and Development Mathematical Modeling of Embryonal Pattern Formation

The Reproductive Toxicology Division of the National Health and Environmental Effects Research Laboratory, United States Environmental Protection Agency, carries out research in support of assessment of human risk for adverse reproductive and developmental effects of environmental exposure. To enhance our research in the area of mechanism-based dose response models, we seek two research biologists (GS-12 level, salary range \$44,953 - \$58,442). (1) **Signal Transduction**, with expertise in receptor-mediated signal transduction and the downstream intracellular signaling pathways leading to cellular responses. The primary focus of this position will be to elucidate possible target sites for reproductive/developmental toxicants and their mechanism(s) of action as they may alter membrane function. (2) **Embryonal Pattern Formation**, requiring the ability to develop mathematical models of the process of pattern formation, particularly in mammals (e.g., embryogenesis, segmentation, somitogenesis, segment identity and/or organogenesis). A strong background in mathematical modeling of biological processes and familiarity with embryology and molecular biology are highly desirable. Laboratory space, support services and start-up funds are excellent for these positions. A Ph.D. in a related field and postdoctoral experience are preferred. For more information and application materials, please contact us before April 1, 1997, at:

U.S. Environmental Protection Agency  
Attn: RTD Recruitment  
Human Resources Management Division (MD-29)  
Research Triangle Park, NC 27711  
Phone: (919) 541-3014

*The U.S. Environmental Protection Agency is an  
Equal Opportunity Employer*



## FACULTY POSITION Microbial Immunology

The Department of Microbiology, University of Pennsylvania School of Medicine invites applications for a tenure-track Assistant Professorship. Candidates should have strong credentials in areas related to the immune response to or immunopathogenesis of microbial infections. Successful applicants will join an interactive group of researchers with interests in many areas of microbiology. Major responsibilities will include supervision of an active research program and the teaching of immunology and microbiology to graduate and medical students. Applicants should submit a curriculum vitae, summary of research accomplishments, description of future plans and three letters of reference by April 15, 1997 to:



Chair  
Microbial Immunology  
Search Committee  
Department of Microbiology  
University of Pennsylvania  
807 Abramson Building  
34th & Civic Center Boulevard  
Philadelphia, PA 19104-4318

For further information about the department visit our website:  
<http://www.med.upenn.edu/micro/>

AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER

## UNIVERSITY OF ILLINOIS AT CHICAGO COLLEGE OF ENGINEERING ANNOUNCES A POSITION OPENING FOR A NEW DIRECTOR/HEAD OF THE BIOENGINEERING PROGRAM/DEPARTMENT

The University of Illinois at Chicago (UIC) has opened a search for a new Director/Head of the Bioengineering Program/Department. The University is adding new faculty resources to this area and has begun the process to move the program to department status. The individual chosen must qualify for the rank of Professor and have a strong record of sponsored research in his/her field of expertise. A doctorate in engineering or its equivalent is required. As Professor and Director/Head of Bioengineering, the individual selected will be expected to provide leadership to guide the growth of Bioengineering. A history of interaction with the medical sciences is desired. Bioengineering has strong interactions with the UIC Medical Center and Rush Presbyterian-St. Luke's Medical Center. Currently, Bioengineering draws its faculty from the College of Engineering and the medical sciences and consists of 21 faculty, 8 adjunct faculty, 48 graduate students and 88 undergraduate students.

Bioengineering offers Ph.D., M.S., and B.S. degrees. Research thrusts are biomedical imaging, biomechanics, biomedical microfluidics and sensors, biomaterials, rehabilitation, and biotransport.

Applications will begin to be reviewed March 7, 1997 but the position will remain open until filled. Applicants should submit their resumes with the names of four references to the following:

Professor Daniel Graupe, Chairman  
Bioengineering Program Director/Head Search Committee  
c/o Office of the Dean  
College of Engineering (MC 159)  
University of Illinois at Chicago  
851 S. Morgan, Chicago, IL 60607-7043  
Ph: (312) 996-3085; Fax: (312) 996-8664  
E-mail: [graupe@cecs.uic.edu](mailto:graupe@cecs.uic.edu)

*The University of Illinois at Chicago is an affirmative action/equal opportunity employer and encourages all qualified candidates to apply.*



# Research Immunologist Opportunities

**Boehringer Ingelheim Pharmaceuticals, Inc.** is seeking outstanding Scientists to conduct biomedical research in our Immunological Diseases Department. Explore the opportunities in surroundings where creativity and innovation drives the search for novel drug therapies targeting critical human diseases with unmet therapeutic needs.

## Senior Scientist, Immunobiologist

The successful candidate will conduct innovative research in drug discovery, in particular in-depth analysis of animal models of immunobiology/inflammation and immune-mediated diseases. To qualify, you must have a Ph.D. in Immunology or a related discipline and at least 2 years of post-doctoral experience. A strong background in cellular immunology and animal models of immunobiology are essential, as is experience in molecular biology and biochemistry. Strong communication skills are essential, and the ability to function in a dynamic, interactive, interdisciplinary team environment is critical. **(Respond to job code: JP-GN)**

## Research Scientist, Immune Regulation

We are seeking an individual with a B.A., or a B.S. Degree in Biology, Biochemistry or related discipline with at least 3 years experience in molecular biology techniques, including PCR and DNA sequence analysis. Basic training in cell culture, protein biochemistry methods, and/or BIAcore technology is highly desirable. Duties include: the construction and sequencing of recombinant genes and expression vectors and protein expression in insect cells and bacteria; the analysis of expression by ELISA and biochemical methods, as well as protein purification, functional and biochemical characterization of recombinant proteins; and the establishment of screening assays for protein - protein interactions. **(Respond to job code: JP-MK)**

## Research Scientist, Cell Adhesion

The ideal candidate must hold a B.A., or B.S. Degree in Biology, Biochemistry or a related scientific discipline. Basic training in cell culture, molecular biology, protein analysis as well as experience in assay and method development is desirable. Additional experience in protein purification would be a plus. Responsibilities would include: assisting in drug discovery, assay development, compound screening and evaluation. Other duties will include the production, isolation, and characterization of natural and recombinant proteins for the use in method development. **(Respond to job code: JP-KB)**

**Boehringer Ingelheim's** R&D facility is located in a campus-like setting in a beautiful area of Western Connecticut. We offer excellent facilities and a supportive and challenging environment. For an opportunity to contribute to our innovative programs, please send your curriculum vitae to: **Boehringer Ingelheim Pharmaceuticals, Inc., Dept. JP—, 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877-0368; or email: jpetraglia@bi-pharm.com** We are an equal opportunity employer. As a progressive health care company, we have a non-smoking environment.

Positions will be posted at FASEB Career Resources Placement Services, in Hall B, Mascone Center, San Francisco, CA. AAAI/AAI/CIS joint meeting, February '97.



**Boehringer  
Ingelheim**

The American Thoracic Society has opened the search for the next Editor of the *American Journal of Respiratory Cell and Molecular Biology*. The Journal publishes papers that report significant and original observations in the area of pulmonary cell and molecular biology. This Journal began publication in July 1989. The current editor, John A. McDonald, will complete his five-year appointment as of July 1, 1998. It is anticipated that the next editor will begin work with the Journal by December 1997. The Search Committee is seeking candidates who are active investigators and have had editorial experience on a scientific journal. Letters of interest and curriculum vitae should be sent to:

**Stephen B. Liggett, M.D.**  
Chairman, Search Committee  
American Thoracic Society  
1740 Broadway  
New York, NY 10019-4374

## EXPERIMENTAL PATHOLOGIST

### Apply your knowledge to a world-class research and development effort

Few healthcare companies can offer you as many opportunities to impact the future of human health as Hoffmann-La Roche. We are making significant strides in the understanding and treatment of disease processes, and now seek an Experimental Pathologist to further our efforts in our integrated Discovery Units of Oncology, Inflammation, Autoimmune and Metabolic Diseases.

As a key member of an interdisciplinary scientific team, you will use your background in molecular and morphologic pathology to characterize animal models, evaluate specimens from exploratory efficacy and toxicity studies and work with other scientists to screen and select new compounds.

A Ph.D. in pathology or a related field and a veterinary or medical degree are required. Applicants must also possess a background in the following: diagnostic histopathology, immunohistochemistry, electron microscopy, and *in situ* hybridization. Experience with experimental design, computer systems, strong communication skills and the ability to organize and interpret scientific information are musts. Drug development or pharmaceutical experience is a strong asset.

We provide a salary and benefits package that fully reflects our status as a premier healthcare organization. To be considered, forward your resume and salary requirements to: Stella Sirazdas, Hoffmann-La Roche, Dept. 7SS05LA, 340 Kingsland Street, Building 76, 5th Floor, Nutley, NJ 07110-1199. No telephone calls or agencies, please. Hoffmann-La Roche is an equal opportunity employer.

For information on postdoc positions see our other ad also appearing in this issue.

**See us at the BioScience Career Fair at the MIT Campus in Cambridge, MA, February 28-March 1.**



**Hoffmann-La Roche**

A Member of the Roche Group

# Be at the forefront

...of drug development research with the DuPont Merck Pharmaceutical Company. We are focused on meeting unmet medical needs through the discovery and development of innovative compounds leading to novel pharmaceuticals.

## **ASSOCIATE/STAFF SCIENTISTS** **High-Throughput Screening-Leads Discovery**

Associate/Staff Scientists needed to participate in the technology development for ultra high-throughput screening. Individuals will participate in the development of cutting edge technology leading to the rapid discovery of novel therapeutic compounds. Background in Biochemistry, Enzymology, Signal Transduction, or High-Throughput Screening required. BS/MS or equivalent required. Code: LD197-SS

## **POSTDOCTORAL FELLOW** **Biomolecular Screening**

A postdoctoral position is available immediately in the DuPont Merck Biomolecular Screening group to identify essential genes and gene products in microorganisms. Qualified candidates must be highly motivated, industrious, creative, and have no more than 5 years postdoctoral experience. You will work as part of a multidisciplinary team focused on developing therapeutics to combat microbial infections. Experience with prokaryotic gene expression and recombinant DNA technology required; experience in bacterial or fungal genetics and microbiology is desirable. Code: KO-MJ.

Our location, in Wilmington, DE, offers an attractive lifestyle with easy access to all the cultural, academic and recreational activities of the Eastern Seaboard. The DuPont Merck Pharmaceutical Company can offer you an excellent compensation and benefits package. To be considered, please forward your resume to: Human Resources- (Code), The DuPont Merck Pharmaceutical Company, Experimental Station, 400/2413, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer, M/F/D/V.

**DU PONT**  
**MERCK**

**The DuPont Merck Pharmaceutical Company**  
Merging Strengths...Emerging Opportunities.

## **FACULTY POSITIONS: PROTEIN CHEMISTRY; SIGNALLING; IMMUNOLOGY** **The Biomedical Research Centre** **The University of British Columbia**

Applications are sought for faculty to join an interdisciplinary, interactive research program focused on signalling between and within cells of the immune system. The BRC is located on campus in a well-equipped, open-plan building, with facilities for ion-spray mass spectrometry, chemical synthesis and sequencing of proteins, and the generation of transgenic mice.

Candidates should have expertise in areas such as high-sensitivity analyses of proteins, molecular genetics, or immunology, an interest in innovative approaches to the analysis of signal transduction in the immune system and a commitment to interactive, interdisciplinary research.

Established investigators with internationally recognized research programs, and new investigators with strong potential for a research career, will be considered. Salary and academic rank (tenure or tenure-track) will be commensurate with experience. Anticipated start date would be **January 1, 1998**.

UBC welcomes all qualified applicants, especially women, aboriginal people, visible minorities and persons with disabilities. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

Further information can be obtained at The BRC's web-site, at <http://www.brc.ca> or by contacting Dr. John Schrader by fax at (604) 822-7815 or by e-mail at [john@brc.ubc.ca](mailto:john@brc.ubc.ca). Applicants should submit a curriculum vitae, an outline of research interests and the names of three referees **prior to April 30, 1997** to:



**Dr. John Schrader, Director**  
**The Biomedical Research Centre**  
**2222 Health Sciences Mall**  
**The University of British Columbia**  
**Vancouver, BC CANADA V6T 1Z3**

**PENN**  
UNIVERSITY of PENNSYLVANIA

## **FACULTY POSITIONS** **Microbial Biology**

The Department of Microbiology, University of Pennsylvania School of Medicine invites applications for tenure-track positions at all levels in an ongoing expansion in the fields of microbial pathogenesis and microbial molecular genetics. Major responsibilities of successful applicants will include supervision of an active research program and the teaching of microbiology to graduate and medical students. Applicants should submit a curriculum vitae, summary of research accomplishments, description of future plans and three letters of reference by April 15, 1997 to:



**Dr. Fred R. Frankel, Chair**  
**Microbial Biology Search Committee**  
**Department of Microbiology**  
**University of Pennsylvania**  
**811 Abramson Building**  
**34th & Civic Center Boulevard**  
**Philadelphia, PA 19104-4318**

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# CANCER DRUG DISCOVERY

The College of Medicine and The H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida are seeking applications from Research Assistant Professor level individuals to participate in the Cancer Center Drug Discovery Program. Applicants must have interest in research areas related to growth factor signal transduction oncogenes, tumor suppressor genes, cell cycle or metastasis. The main focus of the Drug Discovery Program is to stimulate interactions among intercomplementary and interdependent basic science programs with the ultimate goal of identifying rational targets and designing small molecules for cancer therapy and prevention.

Successful individuals must hold a Ph.D. degree with a minimum of 2 years post-doctoral training. These research-track positions will be assigned to a specific, mutually agreed upon department within the College of Medicine. The Moffitt Cancer Center and USF offer an outstanding salary, benefits and relocation package.

Send current *curriculum vitae* to S. M. Sebti, Ph.D., Director, Drug Discovery Program, H. Lee Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, Florida 33612. Attention: Rebecca Koransky. Applications must be postmarked by deadline of March 13, 1997.

The H. Lee Moffitt Cancer Center and Research Institute is a free-standing Cancer Center located adjacent to the Health Sciences Center on the Tampa campus of the University of South Florida. In addition to a 162-bed full service cancer treatment facility, the Center has research laboratory space in four buildings including over 50,000 square feet of dedicated laboratory and support space in a new Cancer Research Center.



**H. LEE MOFFITT CANCER CENTER  
& RESEARCH INSTITUTE**

University of South Florida College of Medicine

Moffitt Cancer Center is an Equal Opportunity Employer.  
The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Employer. For disability accommodations please contact Rebecca Koransky at (813) 979-3887, a minimum of five working days in advance. TDD# 813-974-2218

## INTRAMURAL RESEARCH PROGRAM NATIONAL INSTITUTE OF MENTAL HEALTH NATIONAL INSTITUTES OF HEALTH SEYMOUR S. KETY RESEARCH FELLOWSHIPS

The National Institute of Mental Health Intramural Training Program is pleased to announce the establishment of Intramural Research Training Awards in honor of Seymour S. Kety, M.D., first Scientific Director of the NIMH Division of Intramural Research (1951-1956). Applications are invited from U.S. citizens or permanent residents with an M.D. and/or Ph.D. degree with less than five years of postdoctoral experience. Awards will be made for up to three years and will provide the opportunity to work in any of the Intramural Research Program's 22 Clinical Branches and Basic Research Laboratories located on the 306-acre NIH Campus in Bethesda, MD, the St. Elizabeth's Hospital in Washington, DC, or the NIH Animal Facility in Poolesville, MD. The Program conducts a broad array of research activities that range from clinical investigation into the diagnosis, treatment and prevention of mental illness to basic neuroscience investigation at the systems, cellular and molecular levels. Stipends are highly competitive. Deadline for applications is April 15th. To apply, submit a cover letter expressing research interests, a curriculum vitae, and two letters of recommendation to:

**Barry B. Kaplan, Ph.D.**

**Director of Fellowship Training  
National Institute of Mental Health  
NIH Clinical Center, Room 4N-222  
10 Center Drive  
Bethesda, MD 20892-1381**

**Phone: (301) 496-4183; Email: kaplanb@irp.nimh.nih.gov**  
*The NIH is an Equal Opportunity/Affirmative Action Employer*

## The Science of Agricultural Genetics

### RESEARCH ASSOCIATE

**Analytical Biochemistry - Nucleic Acid Analysis  
(Job #AB-707)**

An individual is needed to provide analytical support for the production and commercialization of high quality transgenic plants including but not limited to corn. Primary responsibilities will comprise the application of nucleic acid analysis techniques to identify and characterize transgenic plants. Analyses of both DNA (e.g., Southern, PCR) and RNA (e.g., RT-PCR, Northern) are involved. This person will also evaluate and implement state-of-the-art methodologies. Other duties include conducting experiments, troubleshooting assay procedures, and managing and analyzing data. Strong interpersonal, organizational, and communication skills are imperative. The successful candidate will have some experience in developing and utilizing diagnostic assays. Experience with computers and the ability to work with limited supervision are requisite. An M.S. or B.S. degree in molecular biology, biology, genetics or related field with at least three years of laboratory experience in nucleic acid analysis, preferably involving transgenic plants, is essential.

### RESEARCH ASSOCIATE

**Analytical Biochemistry - Recombinant Protein Expression (Job #AB-708)**

This person will join a laboratory that is responsible for all aspects of recombinant protein expression and purification. Primary duties include subcloning genes into expression vectors, optimizing expression conditions, developing purification/refolding schemes, and scale-up for preparative purification. Expression hosts currently used in the laboratory are *E. coli* and *Pichia pastoris*, and use of insect cell/baculovirus is likely. The successful candidate will participate in the planning and implementation of experiments. An MS degree or equivalent in biochemistry or related field, OR a BS degree plus 2 years of relevant research experience is required. Experience with protein expression in *E. coli* and/or yeast, inclusion body refolding, protein analysis, and preparative protein purification is desired. FPLC experience is a definite plus. Good communication and organizational skills are essential.

### RESEARCH MANAGER

**Enabling Technology - Gene Targeting  
(Job #ET-706)**

The Research Manager in the Gene Targeting group will manage a molecular biology program, as part of a team working on gene targeting and other molecular genetic approaches for manipulation of corn and other Pioneer crops. This position will require not only a demonstrated ability to develop and implement innovative gene targeting approaches into areas of basic and applied research, but also experience and willingness to interact closely with other molecular and cell biologists and breeders on group oriented projects, including working with external collaborators. We require a Ph.D. or equivalent in molecular biology or related field, plus at least 3 years of directly related experience in molecular/cell biology, and experience with supervising technical staff and setting research goals/timelines. Excellent communication skills as well as fluency with use of computers and sequence analysis software are also required. Preference will be given to candidates with direct experience and/or broad knowledge in areas of DNA recombination and repair in plant or animal systems.

Pioneer Hi-Bred International, Inc. offers competitive salaries and excellent, comprehensive benefits. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages. For confidential consideration send 3 copies of your cover letter and current resume, indicating job number, by February 28, 1997 to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (Job #AB-707, AB-708 or ET-706), P.O. Box 1004, Johnston, IA 50131-1004.

Pioneer Hi-Bred International, Inc., is the world leader in agricultural genetics. Founded in 1926, we are a publicly held company that invests more than \$115 million in research and product development. Pioneer® brand products are grown in almost every crop-producing continent in the world. At our headquarters in Des Moines, Iowa, we're adding to our Research team.



**PIONEER HI-BRED  
INTERNATIONAL, INC.**  
*An Equal Opportunity  
Employer*

## FACULTY POSITIONS

Two tenure-track positions available  
University of Colorado Health Sciences Center  
Denver, Colorado

Two tenure-track positions are available to support a new program in Pharmacokinetics/Experimental Therapeutics jointly developed by the Division of Medical Oncology and the School of Pharmacy.

### DEPARTMENT OF PHARMACEUTICAL SCIENCES PHARMACOKINETICS/MASS SPECTROMETRY SCHOOL OF PHARMACY

The Department of Pharmaceutical Sciences is seeking applicants for a tenure-track position at the level of assistant professor. The successful applicant will have oversight responsibility for a pharmacokinetics/mass spectrometry core facility and must have prior experience in the use of mass spectrometry for pharmacokinetic studies in drug development. The successful applicant will also participate in the development of novel anticancer agents in conjunction with the University of Colorado Cancer Center Experimental Therapeutics Program. Applicants will be expected to contribute to teaching pharmacokinetics and to develop an extramurally funded research program which complements existing research strengths in toxicology and pharmaceutical biotechnology. Send letter of interest, curriculum vitae and contact information for three references to: **Dr. David Ross, Professor and Chair, Pharmacokinetics Search, Department of Pharmaceutical Sciences School of Pharmacy, University of Colorado Health Sciences Center, 4200 E. Ninth Ave. -C238, Denver, CO 80262.**

### DIVISION OF MEDICAL ONCOLOGY CANCER CENTER EXPERIMENTAL THERAPEUTICS PROGRAM SCHOOL OF MEDICINE

The Division of Medical Oncology seeks a Ph.D., MD/Ph.D. or MD tenure-track, Assistant or Associate Professor to focus on the laboratory development of novel anticancer agents and to explore new targets for cancer chemotherapy. The successful applicant will also have significant responsibility for the development of pharmacokinetic support for clinical drug development. In addition, applicants will be expected to develop an extramurally funded basic research program through the NIH and Industry and interact closely with the School of Pharmacy programs in toxicology and pharmaceutical biotechnology. The University of Colorado Health Sciences Center is an NIH-funded Cancer Center, a member of SWOG, and has a funded Lung Cancer SPORE. Appointment level and salary are commensurate with experience. Send letter of interest, curriculum vitae, and contact information for three references to: **Dr. Andrew Kraft, Chief, Division of Medical Oncology, University of Colorado Health Sciences Center, 4200 E. Ninth Ave.-B171, Denver, Colorado 80262.**

*The University of Colorado Health Sciences Center is committed to equal opportunity and affirmative action.*

NEXTRAN, an established leader in xenotransplantation research and an affiliate of Baxter Health Care, is expanding its research efforts. We have several positions available for Research Scientists to join a multidisciplinary team of dedicated and highly motivated scientists.

We are seeking a creative, focused individual with a Ph.D. and a strong background in the field of molecular immunology, with a minimum of 2 years postdoctoral experience. Knowledge of transplant immunology, and experience working with animal models would be advantageous.

We are also seeking Research Associate candidates with an MS and 2 years of laboratory experience or the equivalent. A broad working knowledge of molecular biology and/or immunology is required.

NEXTRAN offers an excellent working environment, state-of-the-art facilities, as well as competitive compensation and superior benefits. Qualified applicants are invited to submit a curriculum vitae along with a letter describing research experience and names of three references to:

**Human Resources  
NEXTRAN**

**303B College Road East  
Princeton, NJ 08540  
FAX (609) 520-9864**

**N E X t r a n**

## NEUROSCIENTISTS

Neurocrine Biosciences Inc. has several positions available for talented scientists to join their Neuroscience Department.

**Behavioral Neuroscience/Psychopharmacology:** An experienced scientist is required to take over and extend an established *in vivo* behavioral modelling program aimed at the identification of novel therapeutics for cognitive decline associated with Alzheimer's disease and other dementias. Candidates should have a Ph.D. in Pharmacology, Neuroscience or a closely related discipline, with 3-5 years postdoctoral experience and demonstrated expertise in behavioral models of learning, memory and cognitive impairment. Experience in an industrial pharmacotherapeutic research and development setting would be a distinct advantage.

**Receptor Pharmacology:** An individual is required with a Ph.D. in Pharmacology, Neuroscience or a closely related field, research experience in intracellular-signalling mechanisms and ideally 1-3 years of postdoctoral laboratory experience. Familiarity with general radioligand and enzymatic assays, techniques for protein-protein biochemical interactions and handling primary cell cultures and transfected cell lines would be an advantage. The successful candidate must also possess general Macintosh and PC skills for data reduction, analysis and presentation.

**Research assistant** positions are also available for those with an aptitude for behavioral studies and small animal surgery. Based in San Diego, California, **Neurocrine Biosciences, Inc.** is a leading biopharmaceutical company focused on developing novel therapeutic agents for the treatment of central nervous system and immunological diseases. The company offers competitive terms and conditions of employment, including full health coverage, and provides an outstanding research environment in which career development is encouraged. Please send your curriculum vitae to: **Dr. Alan C. Foster, Neurocrine Biosciences Inc., 3050 Science Park Road, San Diego, CA 92121; FAX: (619) 658-7696.**

## CONFERENCE

### 1997 FREDERICK CANCER CONFERENCES HOOD COLLEGE, FREDERICK, MARYLAND

Sponsored by The Foundation for Advanced Cancer Studies, Inc.

#### CANCER GENETICS & TUMOR SUPPRESSOR GENES June 12-16, 1997

The 3rd in a series of meetings co-sponsored by Cold Spring Harbor Laboratory

<b>Meeting</b>	Noël Bouck	Edward Harlow
<b>Organizers:</b>	Moshe Oren	Bruce Ponder
	Eileen White	George Vande Woude
<b>Keynote</b>	Judah Folkman	Edward Harlow
<b>Speakers:</b>	Frank McCormick	Bert Vogelstein

#### THIRTEENTH ANNUAL MEETING ON ONCOGENES June 18-21, 1997

<b>Meeting</b>	Douglas Lowy	Jean Wang
<b>Organizers:</b>	Michael Weber	
<b>Plenary Session:</b>	"Growth, Development and Cancer"	
<b>Speakers:</b>	Alan Bernstein	Stephen Elledge
	Tyler Jacks	Craig Thompson

**Contact:** Margaret Fanning  
P.O. Box 249, 12120 Main Street  
Libertytown, Maryland 21762 USA  
301-898-9266 (ph) 301-898-9173 (fax)  
info@facsi.org (e-mail)

CHECK OUT OUR WEBSITE AT [WWW.FACSI.ORG](http://WWW.FACSI.ORG)



HOLLAND LABORATORY

## SENIOR SCIENTIST: LEUKOCYTE FRACTIONS

The American Red Cross has several projects dealing with collecting, purifying, characterizing and utilizing leukocyte subtypes for further manufacturing and/or patient care. A senior level scientist is needed to conduct applied research and development in support of these projects. The candidate must have strong scientific background in immunology, cell biology and leukocyte physiology. In addition, a working knowledge of good laboratory practices, biostatistics and scientific computer use is essential. Excellent communication skills, a track record of obtaining external funds, a demonstrated ability to collaborate with external groups and a willingness to assist in product manufacturing issues are required. A 1-2 page concept proposal for "investigator initiated" activities is requested. Based upon experience, the salary range for this position is \$57,900-\$79,600.

The Holland Laboratory of the American Red Cross is a modern R&D facility located near NIH in suburban Maryland. Please submit a curriculum vitae to:

Leonard I. Friedman, ScD, Head, Product Development Department, Holland Laboratory, 15601 Crabbs Branch Way, Rockville, MD 20855. EOE, M/F/D/V.

## PRESIDENT/CEO

The Harbor UCLA Research and Education Institute (REI), a private, non-profit research organization located at Harbor-UCLA Medical Center, and affiliated with the UCLA School of Medicine and the County of Los Angeles, is seeking a President/CEO. Potential candidates should have extensive experience and background in research administration and sound business skills. An M.D. or Ph.D. and personal research experience are highly desirable. The President will be responsible for the management of financial, human and physical resources of the Institute, and for fund raising, development of new programs and research directions, and for leading the Institute into the 21st century. Currently the institute manages over 600 projects of various funding sources with total yearly expenditures exceeding \$50 million. Principal Investigators number more than 200 and are faculty of the UCLA School of Medicine.

Salary and benefits commensurate with qualifications. Please send curriculum vitae, a one-page description of accomplishments and personal goals, and the names of four referees by 28 February 1997 to: **Dr. Rosemary Leake; Chair, Search Committee; Department of Pediatrics, Box 17; Harbor-UCLA Medical Center; 1000 West Carson Street; Torrance, CA 90509. EOE/AA**



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

ALSAC • Danny Thomas, Founder

## Faculty Positions in Developmental Neurobiology

As part of a long-range commitment to neurobiological research at St. Jude Children's Research Hospital (SJCRH), the Department of Developmental Neurobiology is seeking to expand through the recruitment of junior faculty. Preference will be given to applicants with research programs that complement the department's existing strength in mammalian neurodevelopment. In particular, investigators using contemporary approaches to elucidate the molecular basis of lineage determination in the mouse nervous system are encouraged to apply. It is anticipated that successful applicants will have graduated within the past five years and have already achieved recognition through high profile publications.

SJCRH has made a substantial investment in Developmental Neurobiology in terms of space and resources, thereby making it possible to offer very competitive packages for incoming junior faculty. This includes: salaries for the investigator and their personnel; new laboratory space; as well as start-up and continuing support for equipment and consumables. In addition, appointees have access to a range of institutional core facilities for protein and nucleic acid chemistry and transgenics. The department is already well equipped for most aspects of cell and molecular biology, transgenics, electrophysiology and anatomical analysis.

There are presently six faculty members in Developmental Neurobiology with research interests in the functional and anatomical organization of the developing nervous system, the control of neural death and regeneration, neural plasticity, molecular oncogenesis and the regulation of gene transcription. Those interested in joining this multidisciplinary department should arrange to have their CV, a brief research proposal and three letters of recommendation sent to the **Developmental Neurobiology Search Committee, Attention: Ms. Sharon Sisk, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105. SJCRH is an equal opportunity employment/affirmative action employer.**

MOLECULAR SIMULATIONS INC. is a dynamic \$50MM privately-held company revolutionizing the area of computer-aided molecular science. We are the premier supplier of molecular simulation software at 3,500 leading pharmaceutical, biotech, food, agrochemical, petrochemical, materials and engineering companies. Join us as we strive to give our customers enhanced ability to improve their R&D processes.

## DIRECTOR-COMBINATORIAL CHEMISTRY CONSORTIUM

This senior scientific manager will be responsible for developing/implementing strategies for industry consortium growth in combinatorial chemistry, develop vision for consortium internally/externally and convey to the scientific community, and publish/present the results of scientific research. Requires track record of developing strategic plans and directing scientific/technical resources within an organization. Requires Ph.D. in Chemistry; min of 5 yrs of post-doctoral and industry experience in a pharmaceutical, biotech or related field.

## APPLICATIONS SCIENTIST - BIOINFORMATICS

As an application scientist you will be responsible for working with potential clients during trial periods, providing research strategies and performing demonstrative calculations. Will establish research collaborations, staff scientific conferences, and assist in customer training. Significant travel and interact with prominent scientists in industrial, academic and government laboratories. Requires Ph.D. in Molecular Biology, Biochemistry, or a related field is preferred, with proven experience in the areas of genomics and bioinformatics.

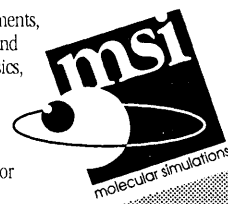
## SENIOR PRODUCT DEVELOPMENT SCIENTIST - RATIONAL DRUG DESIGN

Responsible for enhancing/maintaining Catalyst products, develop/improve algorithms for conformational search, pharmacophore identification, molecular alignment and minimization. Will participate in designing, specifying, and validating software. Requires Ph.D. in Computational or Theoretical Chemistry, Physics or Computer Science, with 3-5 yrs programming experience developing full-featured scientific applications. Familiarity with algorithms applicable to computer-aided drug design and molecular modeling required. Proficiency with C and UNIX is required; knowledge of C++ is desired.

## PRODUCT DEVELOPMENT SCIENTIST

Responsible for the productization of Charmm within the Insight/UC2 environments, liaison between the academic Charmm community and MSI enhancement and evaluation/validation of new scientific features. Requires Ph.D. in Chemistry or Physics, familiarity with Charmm development, and strong C programming skills.

We offer a highly competitive compensation and benefits program. Interested candidates should submit their resumes to Judith M. Ohm, Director, Human Resources at MSI, 9685 Scranton Road, San Diego, CA 92121, Fax (619) 458-0136 or E-Mail [johm@msi.com](mailto:johm@msi.com) EOE/AA





## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR PHARMACOLOGIST THE OHIO STATE UNIVERSITY

Applications are invited for a tenure-track position in the Division of Pharmacology at The Ohio State University College of Pharmacy at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Applicants should have a degree in pharmacology, toxicology or a closely related field. Areas of high priority include biochemical, molecular or cellular studies involved in the pharmacological or toxicological actions of drugs. Applicants at the Assistant Professor level should have postdoctoral research experience and demonstrated excellence in conducting research. The individual selected will be expected to develop and maintain an extramurally funded research program and to participate in the teaching responsibilities associated with the undergraduate and graduate programs. Review of applications will begin March 1, 1997 with the position starting on or around October 1, 1997. Candidates should provide a letter of application, a curriculum vitae, a description of research interests and the names and addresses of three references. Interested individuals should contact: **Dennis B. McKay, Ph.D., Chair, Pharmacology Search Committee, College of Pharmacy, The Ohio State University, 500 West 12th Avenue, Columbus, OH 43210-1291.** *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans and individuals with disabilities are encouraged to apply.*

### FACULTY POSITION PHARMACOLOGY

The Fox Chase Cancer Center (FCCC), a nationally recognized research center and oncology hospital, seeks candidates for tenure-track faculty position at the Associate Member (**ASSISTANT PROFESSOR**) level in the Department of Pharmacology. The selected individual will devote full effort to the development of an independent, peer-reviewed research program which will complement existing efforts in the molecular pharmacology and genetics of cancer chemotherapy. Individuals with interest and/or experience in the molecular approaches to drug development and/or genetic determinants of response (especially in human pharmacogenetics) are especially encouraged to apply. The FCCC provides a generous start-up package and a highly interactive research atmosphere in a suburban environment. Further information is available at <http://www.fccc.edu>. Candidates with a Ph.D. and/or M.D. degree should send a curriculum vitae, research plan and names of three references to: **Dr. Kenneth D. Tew, Head of Search Committee, Department of Pharmacology, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.** *Equal Opportunity Employer.*

### ASSISTANT PROFESSOR—MYCOLOGIST

The Biological Sciences Department at the University of Maine invites applications for an academic year, **TENURE-TRACK** faculty position. Applicants must have a Ph.D. in mycology or closely related discipline, and postdoctoral experience is preferred. The successful candidate will be expected to develop a productive research program, team teach in a large undergraduate introductory biology class, teach an upper level mycology course, and to be a source of mycological expertise for the state. Formal review begins March 1, 1997 and will continue until a suitable applicant is found. Position starts September 1, 1997. Applicants should submit a curriculum vitae, relevant reprints, a statement of teaching and research interests, transcripts, and three letters of reference to: **Dr. Jody Jellison, Department of Plant Biology and Pathology, University of Maine, 5722 Deering Hall, Orono, ME 04469-5722.**

*Equal Opportunity/Affirmative Action Employer.*

### VISITING INSTRUCTOR IN BIOLOGY

The Department of Biology at Davidson College is seeking applications for a one-year Visiting Instructor position. The Instructor will teach introductory biology. Ph.D. or all but dissertation in biology, and experience teaching undergraduates required. The appointment will begin on August 1, 1997. Interested persons should send their curriculum vitae, a teaching statement, and three letters of reference to: **Dr. Verna Miller Case, Department of Biology, Davidson College, P.O. Box 1719, Davidson, NC 28036** by April 4, 1997. <http://davidson.edu/academic/biology/job.html>. *Equal Opportunity Employer. Women and minorities encouraged to apply.*

## POSITIONS OPEN

### UC IRVINE COLLEGE OF MEDICINE

The Department of Pathology invites applications for a faculty position at the **ASSOCIATE PROFESSOR/PROFESSOR** level (tenured) to lead a program in mammalian innate immunity with a focus on antimicrobial mechanisms in mucosal epithelium. The department is particularly interested in the development of animal models to study secreted peptidic effector molecules expressed by epithelial cells in response to microbial colonization of host tissues. Experience utilizing mouse models is highly desirable, and applicants should have expertise in the use of molecular and cellular approaches in this field of investigation. Candidates should have a doctoral degree in medical or biological science, an established research program, and a successful record of extramural funding. The successful candidate will be expected to participate in medical student and/or graduate student educational programs of the College of Medicine. Applicants should submit curriculum vitae, statement of research interests, and three references to:

**Professor Larry Stein, Ph.D.  
Chair, Pathology Search Committee  
Department of Pharmacology  
College of Medicine  
University of California  
Irvine, CA 92697**

*The University of California, Irvine is an Equal Opportunity Employer.*

### ANATOMIST—DEVELOPMENTAL BIOLOGIST

The Department of Anatomy of the University of Puerto Rico School of Medicine seeks an individual with teaching experience or training in medical gross anatomy and embryology, or in comparative morphology and embryology of vertebrates, to participate in team-taught medical gross anatomy and embryology. We prefer a developmental biologist conducting research on vertebrates, and in order to increase diversity in our research program and strengthen graduate training, we require an individual whose research emphases are in areas other than neurobiology and biological anthropology. Appointment will be at the rank of **ASSISTANT PROFESSOR**, and will be tenure-track depending on confirmation of funds. Review of applications will begin immediately and continue until the position is filled. Applicants should send curriculum vitae, summary of current research, and names of three references to: **John G. H. Cant, Ph.D., Director, Department of Anatomy, School of Medicine, University of Puerto Rico, G.P.O. Box 365067, San Juan, PR 00936-5067.** Telephone: 787-754-6274; FAX: 787-767-0788. Email for inquiries but not applications: [j\\_cant@rcmaca.upr.clu.edu](mailto:j_cant@rcmaca.upr.clu.edu). *The University of Puerto Rico is an Equal Opportunity/Affirmative Action Employer.*

**BIOLOGIST.** Grinnell College invites applications for a two-year appointment at the **ASSISTANT PROFESSOR** level, beginning August 1997. We seek candidates who are broadly trained and able to teach in our two introductory biology courses, "Structure and Function of Organisms" and "Evolution and Ecology." Candidates should also be able to teach an advanced course in their areas of specialty. A Ph.D. is required and postdoctoral experience is preferred. Excellent facilities and financial support for student-faculty research are available. In their letters of application candidates should address their interests in undergraduate teaching in a liberal-arts environment. Send curriculum vitae, three letters of recommendation, and copies of all transcripts to: **Diane Robertson, Department of Biology, Grinnell College, Grinnell, IA 50112-0806.** Email: [robertdc@ac.grin.edu](mailto:robertdc@ac.grin.edu); FAX: 515-269-4285. To be assured of full consideration, applications must be complete by March 14, 1997. *Grinnell College, an Affirmative Action Employer, encourages applications from women and persons of color, and considers applications without regard to gender, race, color, creed, age, national or ethnic origin, disability and sexual orientation.*

### RESEARCH ASSISTANT PROFESSOR IN TRANSPLANT

Immediately available, well-funded position for Ph.D. interested in cytokine receptor immunology. Training in molecular biology is essential and experience in cytokine receptor immunology and gene transfection or antisense research preferred. Please submit curriculum vitae and a brief statement of research interests to: **M. R. Buckingham, Northwestern University Medical School, 303 East Chicago Avenue, Tarry Room 11-745, Chicago, IL 60611.**

## POSITIONS OPEN

### STRUCTURAL BIOLOGIST

The Department of Physiology and Biophysics invites applications and nominations for a tenure-track position at the **ASSISTANT, ASSOCIATE or FULL PROFESSOR** level. Candidates with interests in applying techniques such as NMR, X-ray or electron crystallography, as well as electron diffraction and image reconstruction to elucidate the structure of membrane proteins are especially encouraged to apply. Candidates must have a Ph.D. and/or M.D. degrees. Salaries and start-up funds are highly competitive. The candidate will also be invited to join the Sealy Center for Structural Biology. The Department and the Center offer excellent facilities (X-ray diffraction, computer and NMR equipment) in a stimulating scientific environment and are deeply committed to a high quality research program in **STRUCTURAL BIOLOGY OF MEMBRANE PROTEINS**. Send complete curriculum vitae, including publications list, brief statement of future research plans, names and addresses of three references, to: **Dr. Javier Navarro, Chair of Search Committee, Department of Physiology and Biophysics, University of Texas Medical Branch, Galveston, TX 77555-0641.** *University of Texas Medical Branch is an Equal Opportunity/Minorities/Females/Disabled/Veterans Affirmative Action Employer.*

### TENURE-TRACK FACULTY POSITION TULANE UNIVERSITY SCHOOL OF MEDICINE DEPARTMENT OF BIOCHEMISTRY

Applications are invited for a tenure-track position at the **ASSOCIATE PROFESSOR or PROFESSOR** level. The successful candidate is expected to have an established and externally funded research program focused on structure/function relationships of biological macromolecules. Teaching (medical and graduate) and interactive skills are essential criteria. Extensive centralized research facilities are available for nucleic acid and peptide synthesis, phosphorimaging, mass spectrometry, transgenic mouse construction, NMR spectrometry (500 MHz). Applications must be postmarked by June 30, 1997. Interested candidates should send their applications, including a comprehensive curriculum vitae and names of four references to: **Biochemistry Search SL-43, Tulane University Medical Center, 1430 Tulane Avenue, New Orleans, LA 70112.**

*Tulane is an Equal Employment Opportunity/Affirmative Action Employer. All Minorities/Females/Veterans are encouraged to apply.*

### ASSISTANT/ASSOCIATE PROFESSOR DEPARTMENT OF CANCER BIOLOGY HARVARD SCHOOL OF PUBLIC HEALTH

The Department of Cancer Biology is seeking applications for a position as **ASSISTANT/ASSOCIATE PROFESSOR**. Candidates should have training in molecular biology, and an interest in pursuing research in carcinogenesis and/or radiobiology.

The successful candidate will be expected to develop a strong research program and assume teaching responsibilities in basic courses in cancer biology and radiation biology, as well as in the supervision of doctoral students. A doctoral degree with two to three years of postdoctoral research experience is required, with demonstrated evidence of innovative research capability. Applicants should send a statement of current and future research interests, curriculum vitae, and the names of three references to: **Dr. Leona Samson, Chair, Ad Hoc Search Committee for Assistant/Associate Professor of Cancer Cell Biology, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.**

*Harvard University is committed to increasing the number of women and minorities in its faculty and encourages applications from such candidates.*

### POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS MOLECULAR BIOLOGY

Positions available to study molecular biology of germ cell development as part of a male contraception program. Expertise in molecular biology or protein chemistry required. Projects include knockout mouse models leading to infertility and studies of multifunctional germ cell specific DNA/RNA-binding proteins as contraceptive targets.

Send résumé and names and addresses of three references to: **Norman Hecht, Department of Biology, Tufts University, Medford, MA 02155.**

**TENURE-TRACK OR TENURED POSITION  
FOR A CHROMATIN STRUCTURE/GENE REGULATION  
INVESTIGATOR AT THE  
NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES  
NATIONAL INSTITUTES OF HEALTH**

A position is available in the Laboratory of Reproductive and Developmental Toxicology for an outstanding scientist to initiate an independent program of basic research in the field of chromatin structure related to gene expression. Applications are invited from candidates with demonstrated potential for creative research in gene regulation, but priority will be given to applicants studying cellular and molecular mechanisms of cell biology of hormone action and chromatin structure. In addition to establishing an independent program of basic research, the successful candidate will have the opportunity to interact with investigators studying diverse problems in the fields of reproductive biology, developmental toxicology, hormone mechanisms, signal transduction, cell growth and differentiation, apoptosis, gene regulation and cancer biology.

Applications from women or members of minority groups are particularly welcome. The position is available to citizens or permanent residents of the United States. Minimum qualifications are a doctoral degree in the biomedical sciences and three years of postdoctoral experience. Salary will be commensurate with the experience and qualifications of the candidate. Interested parties should provide a curriculum vitae with bibliography, a brief statement of research interests, and arrange for three letters of recommendation to be sent no later than **March 21, 1997** to:

**Ms. Lisa Rogers, Human Resource Management Branch (HNV97-3), National Institute of Environmental Health Sciences, P. O. Box 12233, Maildrop 1-01, Research Triangle Park, North Carolina 27709; (919) 541-7811; e-mail Rogers2@niehs.nih.gov**

NIEHS/NIH is an Equal Opportunity Employer

**Viral Biochemistry and  
Screen Development  
Senior Research Scientist**



COMMITTED TO  
WORLDWIDE  
LEADERSHIP IN  
HEALTHCARE

Wyeth-Ayerst Research, a major division of Fortune 150 American Home Products Corporation, has an opportunity currently available in our Pearl River, New York pharmaceutical research facility for an individual to lead a group responsible for the development of novel screens against viral targets.

In this position, you will direct work on protein expression, purification, and screen development, and will be closely involved in lead selection through design and use of secondary assays. This position includes interaction with other groups within the department at each stage of the discovery and development process. The selected candidate will have a Ph.D. with a minimum of 5 years postdoctoral experience that includes working with protein chemistry, biochemistry, screen development, high through-put screening and virology. Supervisory experience is required.

Wyeth-Ayerst Research offers an excellent compensation and benefits package in a highly professional environment. Please send your resume with salary requirements to: **Wyeth-Ayerst Research, Human Resources Dept., Position #OPSCI-2268, P.O. Box 7886, Philadelphia, PA 19101-7886**, or fax your resume (in fine mode if possible) directly into our centralized Research resume database at (610) 989-4854.

e-mail: jobs@RAMAIL1.wyeth.com (ASCII format, no attachments, subject: resume).  
Principals only. Equal Opportunity Employer, M/F/D/V.



**CANCER DRUG DISCOVERY**

The College of Medicine and the H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida are seeking applications from Assistant, Associate and Full Professor level individuals to participate in the Cancer Center Drug Discovery Program. Applicants must have a demonstrated track record in research areas related to growth factor signal transduction, oncogenes, tumor suppressor genes, cell cycle or metastasis. Applicants must also have a great interest to interact with bioorganic chemists. The main focus of the Drug Discovery Program is to stimulate interactions among intercomplementary and interdependent basic science programs with the ultimate goal of identifying rational targets and designing small molecules for cancer therapy and prevention.

Successful individuals must hold M.D. and/or Ph.D. degrees with a minimum of 2 years post-doctoral training. Individuals at the rank of Associate Professor must have a demonstrated potential for extramural funding. Individuals for Full Professor must have a proven track record of independent research, leadership ability and training experience as evidenced by publications and extramural funding. The Moffitt Cancer Center and USF offer an outstanding salary, benefits and relocation package. Academic rank and salary will be commensurate with experience and qualifications. These tenure-track positions will be assigned to a specific, mutually agreed upon department within the College of Medicine.

Send current curriculum vitae and a brief statement of major academic interests to S. M. Sebti, Ph.D., Director, Drug Discovery Program, H. Lee Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, Florida 33612. Applications must be postmarked by deadline of March 13, 1997.

The H. Lee Moffitt Cancer Center and Research Institute is a free-standing Cancer Center located adjacent to the Health Sciences Center on the Tampa campus of the University of South Florida. In addition to a 162-bed full service cancer treatment facility, the Center has research laboratory space in four buildings including over 50,000 square feet of dedicated laboratory and support space in a new Cancer Research Center.



**H. LEE MOFFITT CANCER CENTER  
& RESEARCH INSTITUTE  
University of South Florida College of Medicine**

Moffitt Cancer Center is an Equal Opportunity Employer.  
The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Employer. For disability accommodations please contact Rebecca Koransky at (813) 979-3387, a minimum of five working days in advance. TDD# 813-974-2218

**TENURE-TRACK POSITION  
Assistant Professor Equivalency  
Metabolism and Cell Cycle Control  
Laboratory of Metabolism  
Division of Basic Sciences  
National Cancer Institute**

The tenure track has been created to provide an opportunity for outstanding junior scientists who have completed research training to demonstrate their creativity and productivity as independent scientists. Successful tenure-track candidates become permanent intramural investigators. Tenure-track positions are accompanied by support for salary, positions, space, and research budget. All such positions are advertised nationally and fellows completing NIH training may wish to consider competing for them.

NCI's Laboratory of Metabolism is searching for a tenure-track investigator in the area of metabolism of carcinogens, drugs and endogenous chemicals. The interactions of foreign and endogenous chemicals with cellular macromolecules and their affects on cell cycle control are also of interest. The Laboratory of Metabolism fosters an interactive research environment and the use of diverse experimental approaches and model systems. Applicants should have a Ph.D. or M.D. degree, a strong publication record, and demonstrated potential for imaginative research. Applicants should send curriculum vitae, brief statement of research interest, and have three letters of recommendation sent to: **Ms. Bonnie Richards, Administrative Officer, NIH, NCI, Building 41, Room A208, 41 Library Drive, MSC 5055, Bethesda, MD 20892-5055 (Phone: 301-496-2288)**. Deadline for receipt of applications is April 18, 1997.

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

## POSITIONS OPEN

### ASSISTANT PROFESSOR OF PHARMACOLOGY AND TOXICOLOGY

The Department of Pharmacology and Toxicology of the Rutgers University College of Pharmacy and the Environmental and Occupational Health Sciences Institute (EOHSI) are seeking a full-time, tenure-track, **ASSISTANT PROFESSOR**. The candidate should have a Ph.D. in pharmacology, toxicology, or a related discipline, or an M.D., plus appropriate postdoctoral training. The successful applicant is expected to develop an independent, funded, research program, participate in the teaching activities of the department and the associated Joint Graduate Program in Toxicology, and become a member of the Toxicology Division of the EOHSI. Research in the Division covers a broad range of subjects and is aimed at seeking solutions to challenging questions in environmental health at the mechanistic level. Interested candidates should submit their curriculum vitae and a list of three references to: **Professor Robert Snyder, Chairman, Department of Pharmacology and Toxicology, Rutgers University College of Pharmacy, EOHSI Building, 681 Frelinghuysen Road, P.O. Box 1179, Piscataway, NJ 08855-1179.** Rutgers University is an Affirmative Action/Equal Opportunity Employer.

**ANIMAL PHYSIOLOGIST:** Fall 1997; tenure-track; **ASSISTANT PROFESSOR**; awarded Ph.D. required; pending funding. Will teach human and vertebrate physiology, coordinate Clinical Laboratory Sciences Program, and conduct collaborative research with undergraduate and M.S.-level students. Commitment to innovative instruction to majors and non-majors and active learning in the General Education Program required. Send résumé, teaching and research statements, and names, addresses, and telephone numbers of three references to: **Physiology Search, Department of Biology, James Madison University, Harrisonburg, VA 22807.** Applications received by March 1, 1997 will be assured consideration. James Madison University is an Equal Opportunity/Affirmative Action/Equal Access employer and especially encourages applications from minorities, women, and persons with disabilities.

### STAFF SCIENTIST

DynCorp is looking for a qualified individual to fill the position of **STAFF SCIENTIST** in their Biomedical Services Division [BSD] Laboratory located in Rockville, Maryland. A Ph.D. degree in Microbiology and/or Biochemistry with experience in tissue culture, vaccine production, standardization and safety testing as well as familiarity with CBER/FDA cGMP and cGLP regulations is required. The BSD Laboratory performs contractual services with the Government [NIH, NCI], industry and academia in the areas of tissue culture grown live virus vaccines as well as DNA recombinants and subunit proteins expressed in the baculovirus system and/or eukaryotes and prokaryotes.

DynCorp, an ESOP company, offers a well rounded benefit and compensation package. For confidential consideration, please send résumé and salary requirements to:

**DynCorp**  
**ATTN: Mr. Dereck Woodward**  
**Administrative Assistant**  
**1 Taft Court, Suite 200**  
**Rockville, MD 20850**  
**FAX: 301-738-1109**

An Equal Opportunity Employer

The National Institutes of Health, National Institute of Neurological Disorders and Stroke, Laboratory of Experimental Neuropathology is seeking an Intramural Research & Training Award (IRTA) **FELLOW** (U.S. citizen or permanent resident) who has a recent Ph.D. (less than five years) or M.D. or equivalent degree with experience in molecular biology, virology, molecular genetics, or epidemiology. The appointee will work at the interface between molecular virology and epidemiology in a small group focusing on JC Virus genotypes and PML pathogenesis. The appointment will be for two years with a salary range between \$25,000 and \$38,000. Please submit a curriculum vitae and the names and addresses of three references by March 15, 1997 to:

**Gerald L. Stoner, Ph.D.**  
**LENP, NINDS**  
**Building 36, Room 4A-29**  
**Bethesda, MD 20892**  
**Email: stoner@nih.gov**

NIH is an Equal Opportunity Employer.

## POSITIONS OPEN

### U.S. DEPARTMENT OF AGRICULTURE, AGRICULTURAL RESEARCH SERVICE

**RESEARCH ENTOMOLOGIST** (Insect Pathologist) (GS-11/12). USDA/ARS Horticultural Crops Research Laboratory, Fresno, California, is seeking an innovative research scientist. The incumbent will conduct basic and applied research in entomology. The research will be conducted as part of a team effort directed towards the development of alternatives to chemicals currently used to control stored-product and quarantine pests. The assigned area of responsibility will specifically be to develop insect pathogens as microbial control agents of postharvest pests with emphasis on those infecting Coleoptera. The basic biology of insect(s) will also be determined as they relate to the utilization of potential microbials. The incumbent will also work closely with other entomologists conducting research on other control methods to develop integrated management systems. Specific objectives include: 1) isolate and identify potential insect pathogens for stored-product pests and conduct research to determine their feasibility and efficacy limits; 2) determine the critical or limiting factors, both physical and biological, i.e., population level, storage conditions, etc., that affect the potential effectiveness of the candidate pathogens for use as microbial agents; 3) integrate potential microbial control agents with other pest control strategies that will minimize the use of chemical pesticides. The successful individual will be expected to develop an innovative, vigorous independent research program, collaborate with other scientists and to publish research results in refereed publications. A high level of knowledge in general entomology, basic and applied insect pathology, microbial control, insect biology and integrated pest management is required. A general knowledge of insect population dynamics, ecology, experimental design and statistics is essential. A working knowledge of postharvest practices and stored-product insects is critical, but not essential. Must be a U.S. citizen. A Ph.D. is highly desirable. Candidates with postdoctoral experience are preferred. Salary will be commensurate with experience (\$36-\$43K). Call Dr. Patrick Vail at 209-453-3000 for further information and an opening date for the position. *USDA/ARS is an Equal Opportunity Employer, women and minorities are encouraged to apply.*

**RESEARCH CHEMIST, ZP-1320-III/IV.** The Biotechnology Division of the National Institute of Standards and Technology (NIST) is seeking a **RESEARCH CHEMIST** for a three-year term appointment with possible extensions. Applicants should have a background in biochemistry, genetics or clinical diagnostics to work on standards and/or measurements for DNA diagnostics. Experience should include work in an industrial setting with modern molecular genetic methods including nucleic acid isolation (DNA and RNA), library construction, amplification techniques, probe development and familiarity with a variety of analytical systems for nucleic acids. Additional work in chemistry, biochemistry, molecular biology or genetics/genomics is preferred.

The salary range is \$38,330-\$83,922 depending on qualifications and experience. Moving expenses will be paid, realty relocation will not. Applicants MUST request Vacancy Announcement (NIST/97-0148/XAH) via the Vacancy Hotline: **Telephone: 301-926-4851** for specific details. Technical contact: **Dr. Gary Gilliland, Telephone: 301-975-2629.**

U.S. citizenship is required. Closing date: April 4, 1997. The Department of Commerce/NIST is an Equal Employment/Affirmative Action Employer.

Position available immediately for a **PROTEIN CHEMIST** to study structure/function relationships of exocrine proteins. Ph.D. in chemistry, biochemistry, or biophysics preferred. Experience in isolation and characterization of proteins, as well as, structure analysis by physical methods including NMR is essential. Send curriculum vitae and three letters of recommendation to: **Dr. Frank Oppenheim, Chairman, Department of Periodontology and Oral Biology, Boston University Medical Center, CABR-W201, 700 Albany Street, Boston, MA 02118.**

## POSITIONS OPEN

**RESEARCH ENTOMOLOGIST (GS-11/12).** USDA/ARS/Horticultural Crops Research Laboratory, Fresno, California, is seeking an innovative research scientist. The research will be conducted as part of a team effort directed towards the development of alternatives to chemicals currently used to control stored-product pests. Specific objectives include: 1) identify potential chemical or physical (X-ray, sound, laser optics, pheromones, metabolites, etc.) detection systems for stored-product pests; 2) determine limiting factors, both physical and biological that affect the potential effectiveness of the candidate detection systems for use with dried commodities; 3) integration of detection systems and collaborate with modeler/population ecologists to construct predictive models for detection efficacy based on pest population growth rates, etc. The successful individual will be expected to develop an innovative, vigorous, independent research program, collaborate with other scientists and to publish research results in refereed journals and other media. A working knowledge of horticultural crops is desirable but not essential. Must be a U.S. citizen. A Ph.D. is highly desirable. Candidates with postdoctoral experience are preferred. Salary commensurate with experience (\$36-\$43K). Call Dr. Patrick Vail at 209-453-3000 for further information and an opening date for the position. *USDA/ARS is an Equal Opportunity Employer; women and minorities are encouraged to apply.*

### RESEARCH SCIENTIST AGRICULTURAL RESEARCH SERVICE (ARS)

The Immunology and Disease Resistance Laboratory (ARS) U.S. Department of Agriculture, in Beltsville, Maryland, is seeking a **RESEARCH SCIENTIST** to study protozoan parasites affecting food animals and public health. Scientist will conduct independent and collaborative research to develop diagnostic tests for *Cryptosporidium parvum* to aid in the epidemiologic and ecologic studies and to prevent disease spread in animals and the environment. Research will focus on understanding the mechanisms by which protozoan parasitic infections of livestock can be controlled. Candidate must have experience in animal disease research with knowledge of molecular biology, immunology and biochemistry. Ph.D. is desirable. Must be a U.S. citizen. Salary is commensurate with experience (\$45,939 to \$54,629 per annum). For information on the research program contact: **Dr. Joan Lunney, Research Leader, Telephone: 301-504-8201.** For announcement and forms, call **Ms. Robin Mazyck, Telephone: 301-344-0102.** Mail résumé: **ATTN: ARS-D7B-059-04** not later than March 24, 1997, to **USDA-ARS, BAHQOB, 6305 Ivy Lane, Room 361, Greenbelt, MD 20770.** *USDA is an Equal Opportunity Employer.*

### THE WEIZMANN INSTITUTE OF SCIENCE FACULTY POSITION IN STRUCTURAL BIOLOGY

The Department of Structural Biology (Faculty of Chemistry) at the Weizmann Institute of Science, Rehovot, Israel, is seeking outstanding candidates with demonstrated excellence in the field of structure determination by using multi-dimensional NMR techniques. The candidate is expected to develop an active research program in the application of NMR methods to problems of structure and dynamics of proteins and/or Nucleic acids. The appointment may be tenure-track or tenured depending on the qualifications of the applicant. A successful candidate will have access to state of the art instrumentation including a 750 MHz spectrometer. The department of Structural Biology at the Weizmann Institute provides an excellent environment for interdisciplinary research and there are opportunities for collaborations with research groups in the Life Sciences. Applications should include research plans, curriculum vitae, list of publications, and the names of three referees, and should be sent to: **Prof. Lia Addadi, Head, Department of Structural Biology, Weizmann Institute of Science, Rehovot 76100, Israel.**

Two **POSTDOCTORAL POSITIONS** are available to study the role of cadherins and catenins in cell adhesion and signal transduction (see Cowin & Burke *Curr. Op. Cell Biol.* 8:56-65, 1996). Applicants with Ph.D.s in cell and molecular biology or biochemistry should send their curriculum vitae with a statement of past accomplishments and three references to: **Dr. P. Cowin, Department of Cell Biology, New York University School of Medicine, 550 First Avenue, New York, NY 10016.** FAX: 212-263-8139; Email: **cowinp01@mcrcr.med.nyu.edu.**



# CANCER DRUG DISCOVERY

The College of Medicine and the H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida are seeking applications to fill two postdoctoral Research Associate positions in the Cancer Center Drug Discovery Program. Applicants with interest in research areas related to growth factor signal transduction, oncogenes, tumor suppressor genes, cell cycle or metastasis are encouraged to apply. The main focus of the Drug Discovery Program is to stimulate interactions among intercomplementary and interdependent basic science programs with the ultimate goal of identifying rational targets and designing small molecules for cancer therapy and prevention.

Send current *curriculum vitae* to S. M. Sebti, Ph.D., Director, Drug Discovery Program, H. Lee Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, Florida 33612. Attention: Rebecca Koransky. Applications must be postmarked by deadline of March 13, 1997.

The H. Lee Moffitt Cancer Center and Research Institute is a free-standing Cancer Center located adjacent to the Health Sciences Center on the Tampa campus of the University of South Florida. In addition to a 162-bed full service cancer treatment facility, the Center has research laboratory space in four buildings including over 50,000 square feet of dedicated laboratory and support space in a new Cancer Research Center.



**H. LEE MOFFITT CANCER CENTER  
& RESEARCH INSTITUTE**  
University of South Florida College of Medicine

Moffitt Cancer Center is an Equal Opportunity Employer.  
The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Employer. For disability accommodations please contact Rebecca Koransky at (813) 979-3887, a minimum of five working days in advance. TDD# 813-974-2218

Howard Hughes Medical Institute

## Program Analyst (One Year Appointment)

The Howard Hughes Medical Institute conducts scientific research in leading academic medical centers throughout the United States. Currently, we are seeking a Program Analyst to assist in the development and implementation of policies and procedures for the international research grants program and other programs as needed. **This is a one year, full-time appointment.**

Responsibilities involve assisting in soliciting and processing applications for review; recruiting review panel members and coordinating review panel meetings; reviewing annual financial and program reports from grantee institutions and researchers; assisting in organizing the annual scientific meetings of scholars; conducting background research relevant to international program activities; and preparing reports and publications summarizing the international program.

Requirements include a Master's Degree (Ph.D. preferred), or equivalent in the biological sciences; a minimum of 2 years work experience (preferably in an area of research administration or grants management); and strong management, organizational, communication, and information-gathering skills. Strong computer skills, including familiarity with Windows-based word processing and spreadsheet programs, database software, and the Internet, are also necessary. Previous laboratory research experience in a university environment or international research program management experience a plus.

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



# CRYSTALLOGRAPHY

The NIH Crystallography Consortium, in collaboration with the Albert Einstein College of Medicine Center for Synchrotron Biosciences, will be reconstructing the X9B beamline at the National Synchrotron Light Source for the purpose of optimizing it for protein crystallography. The beamline will serve scientists from both institutions as well as general users.

**SAIC Frederick**, a division of Science Applications International Corporation and an employee-owned company, is coordinating this research effort to be located at Brookhaven National Labs in New York. Primary responsibilities involve construction and maintenance of the beamline and providing assistance to NIH users; however, a limited program of original research will be encouraged. We are seeking individuals with the following credentials:

### Scientist

Ph.D. (crystallography, physics, chemistry or engineering); working knowledge of X-ray instrumentation, computing, electronics and protein crystallography.

### Technician

MS/BS (mechanical/electrical engineering, electronics, computing); 5 years related experience.

**SAIC Frederick** offers an attractive salary and fringe benefits program, including insurances, 401(k) savings plan, stock purchase plan, relocation assistance and more. Forward CV/resume with references to: Barbara J. Norton-Gill, Technical Recruiter, SAIC Frederick, NCI-FCRDC, PO Box B, Frederick, MD 21702; e-mail: [hr@mail.ncifcrf.gov](mailto:hr@mail.ncifcrf.gov)

"We value cultural diversity in the workplace."



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A Division of Science Applications  
International Corporation

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## NORTH SHORE UNIVERSITY HOSPITAL

### Research Faculty-Cell Biology

The Department of Pediatrics, North Shore University Hospital-NYU School of Medicine seeks a full-time faculty research scientist (Ph.D. or M.D.-Ph.D.) with experience and special interest in the field of signal transduction.

Applicants must qualify for appointment to **Research Associate Professor at NYU School of Medicine, Department of Cell Biology**. This NIH funded position demands experience in cellular physiology, biochemistry, cell culture and molecular biology techniques. The position involves important roles in two NIH funded projects, one dealing with **PKC-cAMP Signal Cross-talk** and the other with **Insulin-IRS-1 Signaling**. The ability and desire to function as an independent investigator is mandatory, as the successful candidate will become Co-PI on one project and Co-investigator on the other. Both projects involve supervision of other faculty and support personnel. Participation in long-range planning for the laboratory will require focus, creativity and innovation. Good interpersonal and communication skills are likewise important.

Competitive salary will be commensurate with experience and the level of faculty appointment in the Departments of Pediatrics and Cell Biology, NYU School of Medicine.

Interested individuals should send a resume and reference list to: **Stanley E. Fisher, M.D., Professor of Pediatrics and Cell Biology, Room 138, Boas-Marks Biomedical Sciences Research Center, North Shore University Hospital-NYU School of Medicine, 300 Community Drive, Manhasset, NY 11030.** email: [sfisher@nshs.edu](mailto:sfisher@nshs.edu); Fax: (516) 562-2496  
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WE INVITE THE BEST  
TO JOIN THE BEST.



**NORTH SHORE  
HEALTH SYSTEM**

## POSITIONS OPEN

### UNIVERSITY OF CALIFORNIA SANTA BARBARA DEPARTMENT OF CHEMISTRY FACULTY POSITION

**SENIOR ORGANIC CHEMIST:** The Department of Chemistry of the University of California, Santa Barbara (UCSB), has initiated a search for a senior organic chemist. Individuals must have a Ph.D. and have an outstanding record in research and teaching to be considered. Research at UCSB Chemistry benefits from an atmosphere highly conducive to interdisciplinary studies with close ties to Materials, Physics and Biology, as well as the Marine Sciences Institute. The Department has recently acquired a significant increase in research and instruction space with the construction of the new Physical Sciences building, and is currently renovating space in the Chemistry Building. The specific sub-field is open and applications will be accepted until this position is filled. To apply send a curriculum vitae, selected reprints, a brief description of current research interests, and a list of three persons who could be contacted for professional references. Persons interested in applying or obtaining further information are urged to write to: **Chair, Organic Search Committee, Department of Chemistry, University of California, Santa Barbara, CA 93106-9510.** *An Equal Opportunity/Affirmative Action Employer.*

### ILLINOIS STATE MUSEUM Quaternary Vertebrate Paleontologist

Illinois State Museum seeks vertebrate paleontologist to serve as **CURATOR OF GEOLOGY**. Candidate should have Ph.D. in geology or related discipline, interdisciplinary research experience in vertebrate paleontology and paleoecology; five years experience in museum or university; strong publication and grant-supported research record. Focus on Quaternary and Midwestern United States preferred. Salary commensurate with experience. Starting date June 1, 1997. Send cover letter, curriculum vitae, and names of three references by March 31, 1997 to: **Dr. Bonnie W. Styles, Illinois State Museum, 1011 East Ash Street, Springfield, IL 62703.** Email: [styles@museum.state.il.us](mailto:styles@museum.state.il.us). *Affirmative Action/Equal Employment Opportunity.*

### PLANT CELL BIOLOGIST

One year, full-time position with possibility for up to two additional years pending funding. Teaching responsibilities for cellular and molecular semester of General Biology and a one-semester course in General Botany. Other courses as needed by the department which would likely include a course in an area of the candidate's special expertise. Qualifications for the position include a Ph.D. and demonstrated experience, interest and ability teaching undergraduates. Coe College is a four-year liberal arts college granting a B.A. degree in biology. Send curriculum vitae, statement of teaching interests, and three letters of recommendation to: **Dr. Wendy Dunn, Interim Dean, Coe College, Cedar Rapids, IA 52402.** Deadline for applications: March 1, 1997. *Coe College is an Equal Opportunity Employer.*

### POSTDOCTORAL POSITION IMMUNOLOGY

Highly motivated individual with experience in cellular and molecular immunology needed to study T cell development and function in the intestinal mucosa using mouse models including tissue-specific expression in transgenic systems. Areas of interest include antigen presentation in the mucosal immune system, TCR $\gamma\delta$  specificity, and origin and selection of intraepithelial lymphocytes. Send curriculum vitae and names of three references to: **Leo Lefrançois, Ph.D., Department of Medicine, MC1310, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030.** Email: [llefranc@panda.uconn.edu](mailto:llefranc@panda.uconn.edu).

*An Affirmative Action/Equal Opportunity Employer. Minorities/Females/Persons with Disabilities/Veterans.*

A **POSTDOCTORAL POSITION** is available to study the regulation of expression of ligand-gated ion channels in neuronal cell lines by ethanol. Previous experience with basic molecular biological (RT-PCR, *in situ* hybridization, genomic DNA libraries, gel shift assays, reporter gene systems) and biochemical techniques (receptor binding, Western Blots) is highly desirable. Mail or FAX curriculum vitae and a brief summary of research experience to: **Dr. Tina K. Machu, Department of Pharmacology, Texas Tech University Health Sciences Center, 3601 Fourth Street, Lubbock, TX 79430.** FAX: 806-743-2744.

## POSITIONS OPEN

The Child Psychiatry Branch is seeking candidates for a tenure-track **RESEARCH POSITION** in the neurobiological basis of childhood psychiatric disorders. Candidates should have a Ph.D. degree and postdoctoral training in cognitive neuroscience, neuropsychology, or developmental psychology with an interest in brain imaging, or a M.D. degree with training in neurology, pediatrics, pediatric neurology, or child psychiatry, together with expertise in structural and/or functional brain imaging. The candidate is expected to develop an independent research program and will be provided with resources to conduct the research. The research will take place in a multidisciplinary setting. Populations currently under study in the Branch include healthy children and adolescents as well as those with schizophrenia, attention deficit hyperactivity disorder, and obsessive compulsive disorder. Send a curriculum vitae, statement of research interests, and have three reference letters sent by March 28, 1997 to: **Chair, Search Committee, Child Psychiatry Branch, National Institute of Mental Health, 10 Center Drive, MSC 1800, Building 10, Room 6N240, Bethesda, MD 20892-1800.** Attn: Ms. Bell. Telephone: 301-496-6081. *NIH is an Equal Opportunity Employer.*

### RESEARCH SCIENTISTS

Inflazyme Pharmaceuticals Ltd. is offering the following research positions within the organization in the following areas:

- Pulmonary Pharmacology
- Toxicology
- Pharmacokinetics

Candidates are required to have at least a Masters Degree and demonstrated experience in a relevant field. Candidates interested in applying for any of the positions should send a complete résumé, with projected availability and salary expectations to: **Inflazyme Pharmaceuticals Ltd., 880-999 West Broadway, Vancouver, B.C., V5Z 1K5** Attn: Human Resources. FAX: 604-733-5281.

**POSTDOCTORAL POSITION** available to study the mechanism of protein folding. Studies include the effects of site-directed mutagenesis on the folding as studied by equilibrium and stopped-flow NMR and other spectroscopic techniques. The role of the chaperonin GroE is also under study. Send curriculum vitae and names of references to: **Dr. Carl Frieden, Department of Biochemistry and Molecular Biophysics, Washington University School of Medicine, 660 South Euclid Avenue, Box 8231, St. Louis, MO 63110.** Email: [frieden@biochem.wustl.edu](mailto:frieden@biochem.wustl.edu); Home page: <http://www.biochem.wustl.edu/cflab>.

*An Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** is available after July 1, 1997 for studies of potassium channel gene expression in single identified neurons from the crustacean stomatogastric ganglion. Techniques will include quantitative single cell RT-PCR, antisense and sense RNA injection and oocyte expression of K<sup>+</sup> genes. Strong molecular biology skills and basic knowledge of neurobiology required. For further information inquire at [rmh4@cornell.edu](mailto:rmh4@cornell.edu). Send curriculum vitae with names of three references to: **Dr. Ronald Harris-Warrick, Section of Neurobiology and Behavior, Mudd Hall, Cornell University, Ithaca, NY 14853.**

**POSTDOCTORAL POSITIONS** in drug resistance. Positions available to study the influence of acute and chronic drug treatment on stress response gene expression in cellular systems. Background and/or interest in applying molecular techniques to determine drug mechanisms leading to novel drug development will be beneficial. Further information is available at <http://www.fccc.edu>. Send curriculum vitae and names of three references to: **Dr. Kenneth D. Tew, Department of Pharmacology, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.** *Equal Opportunity Employer.*

### POSTDOCTORAL FELLOW/ RESEARCH FELLOW

Available June 1997 for recent graduates with a Ph.D. in molecular biology or cell biology interested in malignant transformation and cellular differentiation. Send curriculum vitae and names of three references to: **Mark A. Israel, PIBS Graduate Program in Developmental Biology and Department of Neurological Surgery, University of California, San Francisco (UCSF), 513 Parnassus Avenue, San Francisco, CA 94143-0520.** Email: [israel@cgl.ucsf.edu](mailto:israel@cgl.ucsf.edu). *UCSF is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

**TWO POSTDOCTORAL POSITIONS** available for recent Ph.D. graduates with experience in molecular biology and pathogenesis. One project involves characterization of *M. tuberculosis* genes involved in intracellular survival (R. L. Friedman). The other project involves studies on mechanisms of HIV-1 mother-infant transmission (N. Ahmad). Send letter, curriculum vitae, and names of three references to: **Richard L. Friedman, Ph.D. or Nafees Ahmad, Ph.D., Department of Microbiology and Immunology, University of Arizona, Tucson, AZ 85724.** FAX: 520-626-2100. Review of applicants begins March 1, 1997 and will continue until positions are filled. *The University of Arizona is an Equal Opportunity/Affirmative Action/Persons With Disabilities Act Employer. Women and minorities are encouraged to apply.*

**POSTDOCTORAL POSITIONS** available in three interacting signal-transduction laboratories studying PI 3-kinases (S. Rittenhouse), coat proteins and membrane transport (J. Keen), and heterotrimeric G-protein-dependent receptor regulation (J. Benovic). Candidates should have strong laboratory experience in molecular biology and protein biochemistry. Send letter describing experience and research objectives with curriculum vitae and three references to: **Dr. S. E. Rittenhouse, Kimmel Cancer Institute, JAH476, 1020 Locust Street, Philadelphia, PA 19107-6799, USA.** *Equal Opportunity Employer.*

### YALE SCHOOL OF MEDICINE

Two postdoctoral **RESEARCH FELLOWSHIPS** available focused on the immunology of diabetes and fuel metabolism in Type II diabetes. Applicants should hold a Ph.D. or M.D. degree and have basic research experience in immunology, biochemistry, biophysics, or molecular biology. Send curriculum vitae, a summary of relevant experience, and the names of three references by March 15, 1997 to: **Robert Sherwin, M.D., Endocrine Section, Yale School of Medicine, Box 208020, Fitkin I, New Haven, CT 06520-8020.** *An Equal Opportunity Employer.*

**POSTDOCTORAL POSITIONS** are available to clone and characterize novel G protein-coupled receptors and ligands, and generate targeting constructs for these novel receptors. Basic molecular biology, protein structure/function, and cell culture experience is desired. Send curriculum vitae, a brief description of research experience, and the names of three references to: **Dr. Lee F. Kolakowski, Department of Pharmacology, University of Texas Health Science Center, 7703 Floyd Curl, San Antonio, TX 78284.** Email: [kolakowski@uthscsa.edu](mailto:kolakowski@uthscsa.edu).

*University of Texas Health Science Center, San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL FELLOWSHIPS**/carcinogenesis and toxicology. Molecular aspects of Ah receptor and bHLH-PAS protein signaling. Areas of training include the use of yeast or mouse genetics to understand these processes. Experience in yeast systems or murine biology, especially gene targeting is an advantage, but not essential. Please submit the names, addresses and telephone numbers (or Email) of three references, a current curriculum vitae, and a half page statement of scientific interests to: **Chris Bradfield, Ph.D., McArdle Laboratory for Cancer Research, 1400 University Avenue, Madison, WI 53706.** Telephone: 608-262-2024; FAX: 608-262-2824; Email: [bradfield@oncology.wisc.edu](mailto:bradfield@oncology.wisc.edu).

### POSTDOCTORAL POSITION HUMAN TUMOR IMMUNOLOGY

Thomas Jefferson University is seeking a candidate with experience in human T cell immunology and molecular biology of T cell receptors to participate in studies of a human melanoma vaccine. Applicants with at least two years of experience after Ph.D. will be preferred. Send curriculum vitae and references to: **Dr. David Berd, Thomas Jefferson University, 1015 Walnut Street, Suite 1024, Philadelphia, PA 19107.** FAX: 215-923-0797. *Equal Opportunity Employer.*

### RESEARCH ASSOCIATE

To work for Gene Therapy Company with research conducted at the Veterans Administration Medical Center and the University of California—San Diego. Significant experience in competitive PCR (cells and tissue) required. Experience in immunocytology highly desirable. Able to work independently in an environment of diverse backgrounds. FAX résumé to 619-642-6213, attention Ann.

## MEETINGS



### 2nd National Symposium BASIC ASPECTS OF VACCINES

April 30 - May 2, 1997

BETHESDA, MARYLAND

#### PEPTIDE & PROTEIN ANTIGENS

Jay A. Berzofsky, *Chair*  
Eli Sercarz  
Alessandro Sette  
Martin Kast

#### GENETICALLY ENGINEERED VACCINES

Bernard Moss, *Chair*  
Peter Palese  
Peter Collins  
Harriet L. Robinson

#### ADJUVANTS & ADJUVANT MECHANISMS

Carl R. Alving, *Chair*  
Tim R. Mosmann  
Ralph M. Steinman  
Kenneth Rock

#### MUCOSAL IMMUNITY & SITE- DIRECTED IMMUNIZATION

Martin Kagnoff, *Chair*  
Kevin Kileen  
Harry B. Greenberg  
Howard Weiner

#### IMPORTANT EMERGING VACCINES & STRATEGIES

Myron M. Levine, *Chair*  
John Robbins  
Stephen Johnston  
Charles Arntzen  
Gordon Dougan

For information, tel: 202 782-3248 fax: 202 782-0721  
EM: [symposium@wrair-emh1.army.mil](mailto:symposium@wrair-emh1.army.mil)

## COURSES & TRAINING

### RUTGERS—ROBERT WOOD JOHNSON MEDICAL SCHOOL

#### Training Program: GENETIC AND DEVELOPMENTAL BASIS OF MENTAL ILLNESS

Pre- and postdoctoral positions are available in a new training program (funded jointly by NIMH and NIA) at the Rutgers/UMDNJ-Robert Wood Johnson Medical School in Piscataway, NJ. The fourteen participating training laboratories listed constitute one segment of a major university research environment with additional strengths in multiple aspects of cell and molecular biology.

**Cory Abate-Shen**—Regulation of gene transcription in the CNS

**Ira Black**—Trophic factor regulation of nervous system structure and function

**Kiran Chada**—Molecular analysis of development

**Emanuel DiCicco-Bloom**—Analysis of proliferation in the developing CNS

**Cheryl Dreyfus**—Role of trophic factors in neural cell survival and death

**Monica Driscoll**—Genetic and cellular analysis of cell death in *C. elegans*

**Isaac Edery**—Molecular mechanisms underlying biological clocks

**Herbert Geller**—Neural-glia interactions during development and in disease

**Randall McKinnon**—Trophic regulation of oligodendrocyte development and repair

**Richard Nowakowski**—Cell proliferation and migration in the cerebral cortex

**John Pintar**—Genetic analysis of mammalian neural and neuroendocrine development

**Mark Plummer**—Physiology of calcium channels

**Thomas Walsh**—Systems and pharmacological analysis of the septo-hippocampal pathway

**Mark West**—Functional organization of the striatum; dopamine electrophysiology

Postdoctoral applicants should apply directly to the proposed sponsor, while predoctoral applicants can apply to either the Molecular Biosciences or Neurobiology and Physiology graduate programs. All appointees must be either a citizen or permanent resident of the United States. We particularly welcome applications from women and members of under-represented minority groups. Information about participating graduate programs can be obtained from Ms. Carol Gislason via email: [gislason@mbcl.rutgers.edu](mailto:gislason@mbcl.rutgers.edu). Any other inquiries can be addressed to Dr. John Pintar, Department of Neuroscience and Cell Biology, CABM Rm. 326, UMDNJ-Robert Wood Johnson Medical School, Piscataway, NJ 08854; email: [pintar@mbcl.rutgers.edu](mailto:pintar@mbcl.rutgers.edu). Additional information is also available at our Web site:

[http://www2.umdj.edu/~neuro/pnb\\_prog/pnb\\_1.htm](http://www2.umdj.edu/~neuro/pnb_prog/pnb_1.htm)

## ANNOUNCEMENT



**Consortium for  
Plasma Science, LLC**

### \$4 Million over Three Years for Plasma Pathogen Inactivation Research

The Consortium for Plasma Science, LLC, a research collaborative of five plasma fractionation companies, announces availability of grants totaling \$4 million over a three-year period for research and development into methods to inactivate or remove pathogens in plasma and plasma derivatives, preferably with a focus on initial sterilization technologies.

The Consortium seeks to license and support broadly applicable technologies or methods that inactivate or remove pathogens without adversely affecting the efficacy of plasma or plasma derivatives. Primary emphasis should be placed on non-enveloped viruses, which may include Parvovirus, Hepatitis A, Vaccinia and SV40.

First round technology assessment grants will be in the \$25–50,000 range; up to \$250,000 is available to develop advanced technologies. Renewed funding will depend on progress.

First round proposals are due April 30, 1997; grants will be awarded beginning in June. Second round proposals are due September 30, 1997; grants will be awarded beginning in January, 1998. For information or grant applications contact:



**Consortium for Plasma Science, LLC**

Laura E. Bradford, Interim Director,  
505 King Ave., Columbus, OH 43210-2693.  
(614) 424-7716 (phone) (614) 424-3279 (fax)  
or, [bradford@battelle.org](mailto:bradford@battelle.org) (e-mail)



## POSITIONS OPEN

### NIH POSTDOCTORAL POSITION Novel Expression Systems for Engineered Antibody-Toxin Fusion Proteins

We have developed anti-T cell immunotoxins that deplete blood and lymph node T cells by two to three logs *in vivo*. A single course produces long term tolerance to mismatched renal allografts in rhesus monkeys (Knechtle *et al.*, *Transplantation* 53:1, 1997). Current work centers on engineering these immunotoxins as both single fusion and coupled proteins for use in pre-clinical and clinical trials. Novel *Pichia* and *Corynebacterium* expression systems are under development. Applicants should have a solid foundation in molecular biology and microbiology. Previous experience in non-*E. coli* protein expression systems would be helpful. Collaborations with clinical departments and the pharmaceutical industry are maintained. Please forward curriculum vitae, the names of three references, and a one page description of career goals, research interests by mail, Email or FAX to: Dr. David M. Neville, Jr., Laboratory of Molecular Biology, National Institute of Mental Health, Building 36 Room 1B08, 36 Convent Drive, Bethesda, MD 20892-4034. FAX: 301-402-0245; Email: davidn@helix.nih.gov. NIH is an Equal Opportunity Employer.

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

### POSTDOCTORAL VIROLOGIST

Postdoctoral fellowship available focusing on pathogenesis of human herpesvirus infection. Projects include: 1) Cellular and molecular mechanisms that regulate latent neuronal infection with herpes simplex virus and 2) Mechanisms of pathogenesis and drug resistance in human cytomegalovirus retinitis. Virology, molecular biology, and cell biology experience desirable. Send curriculum vitae and names and addresses of three references to: Todd Margolis, M.D., Ph.D., F. I. Proctor Foundation, Box 0944, University of California at San Francisco, San Francisco, CA 94143-0944.

University of California at San Francisco is an Affirmative Action/Equal Opportunity Employer. The University undertakes affirmative actions to assure equal employment opportunity for underutilized minorities and women for persons with disabilities, and for Vietnam-era veterans and special disabled veterans.

### POSTDOCTORAL TRAINING IN THE IMMUNOBIOLOGY OF NORMAL AND NEOPLASTIC LYMPHOCYTES

This NIH sponsored program offers training in a wide variety of cancer related areas of immunology including immune recognition, regulation, and tolerance; lymphocyte development; cell signaling and adhesion; and cancer immunotherapy. Positions are open immediately for Ph.D. graduates and for those who expect to graduate in the next six months. Applicants must be American citizens or permanent residents. Send curriculum vitae and three references to: Dr. Yvonne Paterson, Program Director, Department of Microbiology, 802G Abramson Research Building/4318, University of Pennsylvania Medical Center, Philadelphia, PA 19104. FAX: 215-573-9068; Email: yvonne@mail.med.upenn.edu. Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** for ecological/physiological studies of fertilization in marine algae, especially of signal transduction pathways by which adults sense relevant environmental factors (e.g., *P.N.A.S.* 93: 5286-90). Experience with ultrastructural or molecular techniques desirable. Send curriculum vitae and names of three references by March 10, 1997 to: Dr. Susan H. Brawley, Department of Plant Biology, University of Maine, Orono, ME 04469-5722. An Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN



Csiro Plant Industry, Canberra and Csiro Horticulture, Adelaide have two positions of **POSTDOCTORAL FELLOWS** in molecular biology of apomixis.

Please refer to advertisement on the internet at <http://www.employment.com.au>. Applications close 10 March 1997.

### POSTDOCTORAL FELLOWSHIP IN IMAGING PHYSICS

The Laboratory of Cardiac Energetics of the National Heart, Lung and Blood Institute invites applications for a postdoctoral fellowship in the research area of fiber-optical sensors in an imaging physics group. The focus of this research is high sensitivity pressure transducers in the ultrasound frequency range using laser fiber-optic interferometers. Applications for this technology are in conventional ultrasound and emerging medical imaging methods based on the Hall effect. Candidates must have a Ph.D. Experience in laser fiber-optics or optical physics is welcome. Position is on the main National Institutes of Health campus in Bethesda, Maryland. Please send résumé and an outline of interests to:

Dr. Robert S. Balaban  
Laboratory of Cardiac Energetics  
National Heart, Lung and Blood Institute  
National Institutes of Health  
Building 10, Room B1D-161  
Mail Stop 1061  
Bethesda, MD 20892-1061

The National Institutes of Health is an Equal Opportunity Employer.

A **POSTDOCTORAL POSITION** will be available in the spring or summer of 1997 to work on B lymphocyte development and activation with an emphasis on the roles of complement and complement receptors (CD21 and CD35) in the normal immune response and autoimmunity. Projects designed to characterize the cell biology and immunologic roles of these receptors are available in human and mouse systems. Research approaches focus on molecular biologic in addition to cellular immunologic methodologies. The training environment benefits from strong collaborative arrangements within the combined Immunology Program at University of Colorado Health Sciences Center, Barbara Davis Center for Diabetes and the National Jewish Center for Immunology. A strong background in molecular structure-function, biochemistry or cellular immunology is required. Please send curriculum vitae and the names of three references to: Dr. V. Michael Holers, Departments of Medicine and Immunology, Box B-115, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262. The University of Colorado Health Sciences Center is committed to Affirmative Action and Equal Employment Opportunity.

### POSTDOCTORAL POSITION Molecular Oncology/Retrovirology

Position available immediately in a well supported laboratory studying the molecular mechanisms of malignant transformation and developing new immuno- and anti-sense-therapeutics. Must be 0-3 years after obtaining a Ph.D. in biochemistry or molecular biology, and have documented experience with PCR, DNA, and RNA analysis and gene cloning. The candidate will be involved in cloning and characterization of the new female cancer virus. Previous experience with retroviruses preferred.

Please send or fax curriculum vitae and names of three references to: Dr. Ewa M. Rakowicz-Szulczynska, Associate Professor, Director, Molecular Oncology Laboratories, Department of Obstetrics and Gynecology, University of Nebraska Eppley Cancer Center, 600 South 42nd Street, Omaha, NE 68198-3255. FAX: 402-559-8112.

**POSTDOCTORAL POSITION** in the UCLA-DOE Structural Biology Laboratory is available immediately. Research will utilize heteronuclear NMR spectroscopy to investigate macromolecular structure. Experience in NMR is required. Send curriculum vitae and the names of three references to: Dr. Robert Clubb, UCLA, Molecular Biology Institute, Box 951570, Los Angeles, CA 90095-1570. FAX: 310-206-4749; Email: rclubb@mbi.ucla.edu.

## POSITIONS OPEN

**POSTDOCTORAL RESEARCH FELLOWSHIPS IN ENDOCRINOLOGY:** The Endocrine Research Unit, Mayo Clinic, has openings in a NIH-funded postgraduate training program for qualified M.D. and Ph.D. candidates. Thirteen NIH-supported faculty are involved in clinical and basic studies of: (i) diabetes with emphasis on metabolism (M. Jensen, R. Rizza, F. Schwenk, and S. Nair); (ii) bone/calcium metabolism (L. Fitzpatrick, R. Turner, S. Khosla and L. Riggs); (iii) growth factors (C. Conover); (iv) thyroid stimulating hormone (J. Morris); (v) Grave's ophthalmopathy (R. Bahn) and (vi) control of gene expression (N. Eberhardt and D. Tindall). The programs provide excellent training experiences in well-equipped laboratories investigating molecular, cellular and organ level endocrinology. NIH stipends are supplemented according to standard Mayo policy. Appointments are made for a minimum two-year period with maximum support up to three years. Candidates must be U.S. citizens or have resident alien status. Additional information available at: <http://www.mayo.edu/endo/endocrine.html>. Interested individuals contact: Norman L. Eberhardt, Ph.D., 4-407 Alfred, Mayo Clinic, Rochester, MN 55905. Telephone: 507-255-6554; FAX: 507-255-4828; Email: eberhardt@mayo.edu.

Mayo Foundation is an Affirmative Action/Equal Opportunity Educator and Employer.

### POSTDOCTORAL FELLOWSHIP/ ASSOCIATESHIP IN CHEMISTRY OR BIOLOGY OF POLYPEPTIDE HORMONES (TWO OR THREE YEARS) (AVAILABLE IMMEDIATELY)

Opportunities for Ph.D.s in interdisciplinary group studying peptides and glycopeptides of pituitary or other tissues, using HPLC, gas phase microsequencing, solid-phase and recombinant peptide synthesis, carbohydrate chemistry, RIA/EIA/IRMA, bioassay, to purify, isolate, identify, synthesize, measure and characterize the structure and biologic function of known/unknown pituitary (or other) peptides. Stipend: \$50,000 to \$90,000 plus relocation expenses. Send statement of goals, capabilities, curriculum vitae, and three references to: Dr. A. F. Parlow, Harbor-UCLA Medical Center, 1000 West Carson Street, Torrance, CA 90509. FAX: 310-222-3432; Email: "parlow@afp76.humc.edu".

### PREDOCTORAL FELLOWSHIPS

**GRADUATE FELLOWSHIPS** leading to the Ph.D. degree in biophysics or biochemistry are available through the Roswell Park Graduate School, a component of the State University of New York at Buffalo, located on the campus of Roswell Park Cancer Institute, a comprehensive cancer center. The fellowships are sponsored by the National Cancer Institute and are limited to United States citizens and permanent residents. The annual stipend is \$12,000 plus benefits.

Additional information and application forms are available from:

Chairman, Biophysics/Biochemistry Department  
Roswell Park Graduate School  
Elm and Carlton Streets  
Buffalo, NY 14263

Roswell Park is an Equal Opportunity Employer.

### POSTDOCTORAL POSITION Molecular and Cellular Immunology Harvard School of Public Health

A position is available immediately to study the role of STAT proteins in T helper cell development (*Immunity*, 4:313, 1996; *Nature*, 382:174, 1996). Applicants should have a strong background in immunology and experience in molecular biology. Send curriculum vitae and references to: Dr. Michael J. Grusby, Harvard School of Public Health, Department of Cancer Biology, 651 Huntington Avenue, Boston, MA 02115.

**POSTDOCTORAL POSITION** available immediately to investigate the role of platelet and endothelial cell surface receptors in thrombosis and inflammation. Research will involve an integrated approach including cell biology, biochemistry, and molecular biology. Applicants must have a Ph.D., M.D. or equivalent degree with a strong background in cell biology, ligand-receptor interactions, and receptor signaling.

Submit curriculum vitae and three references by mail or fax to: Dr. Ellinor Peersckie, Professor of Pathology, Cornell University Medical Center, 525 East 68th Street, New York, NY 10021. FAX: 212-746-8855.

# Novel Technologies for New Lead Discovery

SmithKline Beecham is a leader in genome-based pharmaceutical research and has also made major investments in ultra high throughput screening (Ultra HTS) and combinatorial chemistry. To support Ultra HTS in particular, a Molecular Interactions and Novel Assay Technologies group has been created. The group is responsible for configuring new Ultra HTS strategies, investigating molecular interactions in detail and identifying pioneer therapeutic targets. As a result of these changes we are expanding the group and currently have the following vacancies. All roles require effective communication and presentation skills and the ability to work within multidisciplinary teams.

## MOLECULAR INTERACTIONS

### Post Doctoral Physical Biochemist

A key role of the new group is the characterisation of molecular interactions using a variety of techniques. This information is used to configure assays for high throughput screening and provide detailed information on the mechanism of action of novel lead compounds.

Qualifications: PhD, ideally with 1-2 years' post doctoral experience, in the areas of physical biochemistry and investigating the kinetics and thermodynamics of biological systems. A sound knowledge of chemistry will be required and experience of transient kinetic techniques would be an advantage. **Ref: KM74.**

## TARGET CHARACTERISATION

### Post Doctoral Protein Biochemist

An additional objective within the group is to develop strategies for the characterisation of novel genome derived targets. This will include establishing assays for these targets and implementing approaches to identify and characterise target-ligand interactions.

Qualifications: PhD with up to 2 years' post doctoral or equivalent experience in the area of membrane-associated proteins and cell signalling pathways. A sound understanding of the biophysical principles and quantitative techniques used to characterise membrane proteins is essential. A chemistry biased background would be an advantage. **Ref: KM75.**

### Graduate Biochemist

Working primarily as part of the Target Characterisation team, you will assist in the development of assays, with emphasis on membrane associated proteins and cell signalling pathways. Purification and characterisation of novel ligands, including both soluble and membrane proteins will be undertaken. You must be adaptable to emerging instrumentation and technologies.

Qualifications: at least a 2:1 degree in biochemistry (including a strong chemistry background) ideally with 1-2 years' postgraduate experience. Experience in quantitative approaches to cellular and protein biochemistry is required. **Ref: KM76.**

The above vacancies will be based at our impressive new science complex at New Frontiers Science Park, Harlow. This leading-edge facility represents a massive investment in the future of drug discovery and, in concentrating all our UK pharmaceutical discovery research at a single site, offers a superb working environment.

Salary and benefits reflect the influential and growing contribution we expect you to make to our future and benefits include bonus, pension and medical plans, share-matching scheme, profit-related pay, flexible working hours, subsidised restaurant and superb sports and social facilities.

If you believe that you can contribute to these exciting research areas, please send your full career details, quoting the appropriate reference on both the letter and envelope, to the UK Recruitment Manager, SmithKline Beecham Pharmaceuticals, New Frontiers Science Park (South), Third Avenue, Harlow, Essex CM19 5AW, ENGLAND. Closing date: 28th February 1997.

It is part of our fundamental philosophy at SmithKline Beecham that we recruit, train, develop, reward and promote persons in all job areas solely on the basis of qualifications, skills, abilities and aptitudes. Decisions based on race, colour, age, religion, sexual orientation, disability, ethnicity or national origin are unacceptable to the Company.



**SB**  
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Pharmaceuticals

**New Frontiers for Healthcare**

Challenging the natural limits.



#### FACULTY OPENINGS IN BIOMEDICAL ENGINEERING

Washington University in St. Louis invites applications and nominations for the position of Professor and Chair to lead the development of a new Department of Biomedical Engineering in the School of Engineering and Applied Science. The new department is scheduled to open in July 1997 and will have responsibility for existing graduate (M.Sc. and D.Sc.) and undergraduate (B.Sc.) degree programs in biomedical engineering. The University's objective is to build a strong department which will be closely affiliated with a broad-based graduate program having deep roots in both the School of Medicine and the School of Engineering. Washington University's School of Medicine has regularly ranked among the top five schools in the nation in terms of its commitment to and success in leading edge research, and research collaboration between the faculties of medicine and engineering has a rich and fruitful history extending over 40 years. This opening offers an outstanding opportunity to build on this record and open exceptional educational opportunities to the undergraduate student body of the School of Engineering.

A *Special Opportunity Award* recently received from The Whitaker Foundation will accelerate the establishment of the new department. In addition to the Chair, the Award provides funding for at least two additional tenure-track faculty positions which may be at the Assistant, Associate or full Professor levels.

Applicants should have a doctorate in one of the traditional engineering disciplines or in a relevant field such as biology, biophysics, physics or mathematics. Individuals with engineering experience plus an M.D. would be viewed with special interest. The Chair will be expected to establish a high quality research program featured by innovative approaches to modern biotechnology. In this regard, a past record of substantial and sustained research support is essential. Another attribute of vital importance is a clear personal commitment to the recruitment of additional new faculty and graduate students with the goal of shaping the new department and its future development.

Please submit a curriculum vitae plus a statement of current and prospective research interests, reprints of three recent papers, and names of five references to: Professor S.P. Sutra, Chair, Search Committee, Washington University, Campus Box 1097, One Brookings Drive, St. Louis, MO 63130. Applications will be accepted through 7 March 1997. Washington University is an equal opportunity employer. Women and minorities are encouraged to apply.

#### COMPUTATIONAL CHEMIST/PHYSICIST, ZP-1310/

**1320-III/IV** The Physical and Chemical Properties Division of the National Institute of Standards and Technology (NIST) is seeking a research chemist or physicist to fill a permanent appointment to develop, implement and evaluate advanced quantum chemistry (QC) methods for predicting the properties of molecules such as thermochemistry, ground- and excited-state molecular structures, spectroscopy, reaction pathways, and kinetic rates. The researcher must have skill in the development of QC methods and experience in the application of a wide variety of QC methods to the prediction of molecular properties. Recent research experience is essential.

The salary range is \$38,321-\$83,883, depending on qualifications and experience. Travel for employee and immediate family, and shipping of household goods will be paid. Realty relocation expenses will not be paid. Applicants must request the vacancy announcement via the Vacancy Hotline Number (301) 926-4851 for specific requirements of the position. Technical contact is Dr. Walter J. Stevens ([walter.stevens@nist.gov](mailto:walter.stevens@nist.gov)) Please send résumé or application, transcripts, and a summary statement of qualifications by the closing date, 03-14-97, to:

**NIST/97-0006/CAH**

**Admin. Bldg., Room A-123**

**Office of Human Resources Management**

**National Institute of Standards & Technology**

**Gaithersburg, MD 20899**

*The Department of Commerce/NIST is an Equal Employment/Affirmative Action Employer located in Gaithersburg, MD. U.S. citizenship is required.*

#### GLOBAL CAREER OPPORTUNITIES



**THE UNIVERSITY  
OF HONG KONG**

### Professor: Chair of Botany

Applications are invited for appointment as Professor: Chair of Botany (RF-96/97-40), tenable from March 1997. Appointment will be made initially on a three-year fixed-term basis.

Applicants should have strong academic qualifications and an outstanding record of research and publications. The appointee is expected to provide academic leadership in teaching and research, and should specialise in one of the following research areas: Plant Cellular and Molecular Biology, Sexual Plant Reproduction and Rice Plant Molecular Biology.

The University reserves the right not to fill the Chair or to fill the Chair by invitation or to make an appointment at a lower level.

**Annual salary** [non-superannuable, but attracting 15% (taxable) terminal gratuity] will be within the professorial range, which is not less than HK\$1 million (approx. US\$129,870; US Dollar equivalent as at 27 January 1997), with starting salary depending on qualifications and experience.

At current rates, salaries tax will not exceed 15% of gross income. Leave, medical/dental benefits, an allowance for children's education in Hong Kong, and housing at a charge of a percentage of salary, currently 7.5%, are provided.

Further particulars and application forms can be obtained either on WWW at <http://www.hku.hk>, or from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (Fax (852) 2540 6735/2559 2058; E-mail: [APPTUNIT@REG.HKU.HK](mailto:APPTUNIT@REG.HKU.HK)).

**Closes 28 March 1997.**

*The University is an equal opportunity employer and is working towards a smoke-free environment*

#### UNIVERSITY OF ROCHESTER MEDICAL CENTER

##### Cancer Center Director


The University of Rochester Medical Center invites applications or nominations for the position of Director of the Cancer Center. The Director will head the University of Rochester existing NCI designated Cancer Center and lead a major new interdisciplinary program in cancer research. This initiative will involve new space, core facilities, faculty positions, and attractive recruitment start-up packages. The Director will lead the team that will develop one of the World's great institutions for Cancer research and patient care. The Director will be responsible for the overall management and administration of the Cancer Center, as well as the identification of new recruitment and oversight of faculty. In addition, the Director will have overall responsibility for fundraising, community and public relations, and interactions with other components of the Medical Center and its affiliated hospitals. The Director reports to the Dean of the School of Medicine and Dentistry and will have a tenured professorship in an appropriate academic department.

Interested candidates should send their resume and names of at least three references to: **Barbara Iglewski, Ph.D., Chair/Cancer Center, Search Committee, Department of Microbiology and Immunology University of Rochester, 601 Elmwood Avenue, Box 672 Rochester, New York, 14642** The University of Rochester is An Equal Opportunity Employer.



# DIRECTOR

## BIOCHEMISTRY DEPARTMENT

 Astra is a pharmaceutical company in a phase of rapid growth. The company's operations, which are highly international, consist in research, production and marketing of pharmaceuticals through subsidiaries, agents and licensees all over the world. The number of employees is about 17 000 of whom 6 000 in Sweden. Sales in 1995 amounted to SEK 35,8 bn (USD 5.4 bn).

### ASTRA ARCUS AB

Astra Arcus, a research company in the Astra Group, is engaged in R & D in primarily two areas – CNS and Infection. Astra Arcus employs some 450 people in Södertälje, Sweden, 35 kilometres south of Stockholm and some 120 people in Rochester, N. Y., USA.

An excellent opportunity for a neurobiologist with experience in immunology or cellbiology to work in one of the fastest growing pharmaceutical companies. We are looking for a manager to head the recently developed Biochemistry Department in Astra Arcus, Södertälje, Sweden and lead a dynamic group of 30 research scientists and support staff who excel in the fields of immunology, neurohistochemistry and neuropharmacology.

The successful candidate will have a Ph.D. with at least 7 years combined experience in academia and the pharmaceutical industry including at least three years of management responsibilities. You are an organiser with strong communicational and interpersonal skills. Your primary obligation will be to support and motivate your staff in all aspects of their work.

Your leadership skills and scientific background will enable you to meet the diverse needs of Astra Arcus' extensive pharmaceutical research within the CNS field with special emphasis on inflammatory/auto-immune conditions, psychiatric and neurodegenerative disorders. Your principal responsibilities will be to co-ordinate activities with independent project leaders and specialists working on different projects in all phases of drug development; promoting the use and establishment of new technologies and research areas within your department and attending to personnel and budget demands.

For information, please call Bo Ragnar Tolf, tel +46 8 553 284 80, Carina Stenfors, tel +46 8 553 248 60 or Tom Goldschmidt, tel +46 8 553 258 49.

Please send your written resume and CV clearly marked "Director Biochemistry" to Astra Arcus, Human Resources, Knut Natt och Dag, S -151 85 Södertälje, Sweden.  
Closing date is March 7, 1997.



## POSTDOCTORAL POSITIONS IN BIOANALYTICAL SCIENCES

Sandia National Laboratories in Livermore California seeks to hire postdoctoral researchers to take part in a major laboratory initiative for the development of advanced chemical detection technologies, biosensors, and bioanalytical instrumentation. Sandia is the largest U.S. Department of Energy multiprogram laboratory, and has a unique technology base in areas such as microseparations, microfabrication, microphotonics and microelectronics, and materials science. The recently dedicated Chemical and Radiation Detection Laboratory houses 15 state-of-the-art laboratories dedicated to bringing together a multidisciplinary team of researchers to provide innovative sensing solutions to national needs related to the environment, public safety, and defense. We are looking for creative, self-motivated candidates with excellent academic and research qualifications who will thrive in this multidisciplinary environment.

Applicants must have a Ph.D. in chemistry, biophysics, biochemistry, toxicology, chemical engineering, biomedical engineering, or related fields. Experience in one or more of the following areas is highly desirable: capillary or microchannel separations (electrophoresis, capillary HPLC, electrokinetic chromatography), development of novel bioanalytical methods or biosensor technologies, analytical techniques for biological and environmental toxins, and organic synthesis, (e.g. novel stationary phases, fluorescent compounds, reagents for bioconjugate chemistry). Successful candidates will have an outstanding record of peer reviewed publications.

Salary is \$50,000 per annum. Interview and relocation expenses are paid by Sandia.

Send resume, with names of references, publication list, a statement of research expertise and interests, and copies of college transcripts to:

**Dr. Joe Schoeniger**  
Sandia National Laboratories  
c/o Anna Isham, MS91111, HR Dept-CA0023  
P.O. Box 969  
Livermore, CA 94551-0969

*Sandia National Laboratories is an  
Equal Opportunity Employer/Affirmative Action Employer  
Exceptional Service in the National Interest*

**The Fourth International Meeting on Recent Advances in Magnetic Resonance Applications to Porous Media** will take place August 31 - September 3, 1997, at the Statoil Research Center, Trondheim, Norway. A variety of sessions are planned, including those on microporous media, bio and pharmaceutical materials, rock cores and NMR logging, construction materials, polymers, powders, foodstuffs, and new data acquisition and processing techniques. Chairman of the local organising and program committee is John J. Attard. Further information may be obtained from John J. Attard, SINTEF Unimed MR-Center, 7034 Trondheim, Norway, fax +47 73 99 77 08; Email: john.attard@unimed.sintef.no.

## GLOBAL CAREER OPPORTUNITIES

### THE UNIVERSITY OF THE WEST INDIES

St. Augustine, Trinidad

Applications are invited for the following post in the Faculty of Medical Sciences:

### SENIOR LECTURER/ LECTURER IN HUMAN ANATOMY

Applicants should have a PhD in Anatomy or MD or equivalent.

**ANNUAL SALARY RANGE: (MEDICAL):**

Senior Lecturer TT\$137,520 x 2,544 - TT\$147,696 (B) - TT\$150,384 x 2,688 - TT\$161,136; Lecturer TT\$98,928 - TT\$109,104 (B) - TT\$127,920; plus an

Institutional Allowance ranging from 10% to 30% of basic salary depending on post. Regional Allowance, Passages, Pension, Housing Allowance, Study, Travel and Book Grants. Applications naming three referees and detailing qualifications and experience should be sent to the Registrar, The University of the West Indies, St Augustine, Trinidad as soon as possible. Further particulars will be sent to all applicants and are also available from Appointments (45576), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, UK (tel. 0171 387 8572 ext. 206; fax 0171 813 3055; email appts@acu.ac.uk).

### THE QUEEN'S UNIVERSITY OF BELFAST Fixed Term Lectureship in Molecular Oncology (Non-Clinical) SCHOOL OF CLINICAL MEDICINE

Applications are invited for this newly created post initially for three years from 1 March 1997 or such other date as may be agreed, to initiate research, provide research support and leadership in Molecular Oncology within the Division of Molecular Medicine within the School and the Belfast City Hospital Trust. Areas of particular interest will include ovarian, breast, and gastrointestinal cancers. The successful applicant will be expected to focus on gene regulation, function, and expression in these cancer groups.

Applicants must have an honours degree, or equivalent, in a relevant science subject and a Ph.D., or equivalent, in a relevant subject area together with proven excellence in research as evidenced by publications in prestigious journals and successful grant applications. Experience in laboratory management and supervision and experience of teaching oncology would be desirable.

Informal enquiries may be made to **Dr. R. J. Atkinson, Department of Oncology, University Floor, Belfast City Hospital, Belfast, BT9 7AB Northern Ireland, telephone (01232) 329241 extension 2264.**

Salary scale Lecturer Grade A: £15,154 - £19,848 per annum or Lecturer Grade B: £20,679 - £26,430 per annum, with eligibility for USS.

Applicants, quoting Ref. 97/PO12, may obtain further particulars from the **Personnel Office, The Queen's University of Belfast, BT7 1NN Northern Ireland, telephone (01232) 273246/273044 or FAX (01232) 324944.**

Closing date: 28 February 1997

*Committed to an Equal Opportunities policy and selection on merit, the University welcomes applications from all sections of the community. Under its affirmative action programme, it particularly welcomes applications from women for academic posts.*

## Scientist/Sr. Scientist (Protein Purification)

ZymoGenetics, a Seattle-based biotechnology company located in the historic Lake Union Steam Plant, has an immediate opening in the Department of Protein Biochemistry for a Scientist/Sr. Scientist to work in the area of protein purification.

As part of our ongoing research efforts, ZymoGenetics is actively engaged in the use of Bioinformatics to identify novel proteins with potential therapeutic use. As part of this program, these proteins are being cloned, expressed in various host organisms, then purified to provide materials for biological evaluation. The ultimate goal of this effort is the development of novel protein therapeutics for the treatment of human disease.

Due to the high level of activity associated with the Bioinformatics effort, the candidate in this position will be working in a fast-paced environment, interacting with project groups across the company. Successful applicants should have a strong background in all aspects of protein purification, including the use of both conventional and affinity chromatography techniques. Experience with the purification of both recombinant and non-recombinant proteins is highly preferred. This individual should also have a strong background in the development, purification and use of monoclonal and polyclonal antibodies as immuno reagents.

Qualified candidates will have a Ph.D. and 2+ years of direct laboratory experience in the area of protein biochemistry.

As a subsidiary of Novo Nordisk A/S, the world's largest producer of industrial enzymes, ZymoGenetics offers an exciting environment characteristic of a small research and development company, along with the scope and stability of a large pharmaceutical corporation. We also offer intellectual challenge, state-of-the-art facilities and a generous benefits package. Please apply by sending your resume or CV, noting reference # 13R197, to: *ZymoGenetics, Inc., Human Resources, 1201 Eastlake Avenue East, Seattle, WA 98102*. ZymoGenetics is committed to Equal Opportunity and Diversity.

**ZYMOGENETICS** 

## Postdoctoral Fellows

Few healthcare companies can offer you as many opportunities to impact the future of human health as Hoffmann-La Roche. With more exciting products in the pipeline than ever before, there's never been a better time to become part of our world-class research team working to improve the lives of people all over the world. If you have a strong background in biochemistry, molecular biology and receptor pharmacology and preferably some experience in G-protein coupled receptors or receptor signal transduction, consider these postdoc positions currently available at our Nutley, New Jersey location.

### BIOCHEMIST/RECEPTOR PHARMACOLOGIST

You will be involved in a project focusing on a G-protein coupled receptor that plays an integral role in body weight regulation and fat metabolism and is a potential target for anti-obesity agents. Specifically, you will be investigating molecular and biochemical aspects of this receptor and the downstream signaling pathway. Potential areas of research include biochemical analyses of the receptor active site using chemical and photoaffinity labeling techniques, synthetic ligand binding studies, and receptor mutagenesis. **Dept. 75S04SF**

### MOLECULAR BIOLOGY

Another project will focus on other receptors such as the OB receptor that plays an integral role in glucose or fat metabolism. Specifically, you will be investigating and characterizing the molecular signaling pathways associated with these receptors. One of the approaches will utilize the yeast tribrid system to identify novel signaling molecules and to characterize their roles in the signal transduction cascade. **Dept. 75S06JK**

We provide a salary and benefits package that fully reflects our status as a premier healthcare organization. To be considered, forward your resume, indicating the appropriate code from above, to: Stella Strazdas, Hoffmann-La Roche, 340 Kingsland Street, Building 76, 5th Floor, Nutley, NJ 07110-1199. No telephone calls or agencies, please. Hoffmann-La Roche is an equal opportunity employer.

For information on other opportunities with Hoffmann-La Roche, look for our Experimental Pathologist ad also appearing in this issue.

**Look for us at the BioScience Career Fair at the MIT Campus in Cambridge, MA, February 28-March 1.**



**Hoffmann-La Roche**

A Member of the Roche Group

### UNIVERSITY OF MICHIGAN

#### POSTDOCTORAL FELLOWSHIPS FOR DIVERSITY IN THE SCIENCES

**Program:** The Postdoctoral Fellowships for Diversity in the Sciences offers research fellowships and has as its purpose to enhance the intellectual and social diversity of scholars in the sciences. The fellowships provide postdoctoral research opportunities for members of groups historically underrepresented in the sciences.

**Awards:** Fellows will be selected on the basis of their proposed research, scholarly promise, and past achievements. Departmental and institutional needs will also be strong considerations. Each fellowship will be awarded for one year, renewable for a second year based on academic progress.

**Compensation:** Fellows will receive a competitive annual salary, a full benefits package, and up to \$5,000 toward research supplies, travel, or assistance.

**Eligibility:** Applicants must have received a doctorate no more than two years before the start of the appointment on September 1, 1997. Applicants must be US citizens or permanent residents who are members of ethnic or racial groups historically underrepresented in the fields of biology, physics, chemistry, astronomy, geology, and mathematics. Fellows must show promise toward a future career in academia.

**Application:** You must identify a Michigan faculty member with whom you would like to collaborate. To learn of research opportunities at the University of Michigan, you can review material on the following departments' web pages, or call to view written information.

Biology	<a href="http://www.biology.lsa.umich.edu">www.biology.lsa.umich.edu</a>	313-764-7427
Chemistry	<a href="http://www.umich.edu/~michchem">www.umich.edu/~michchem</a>	313-764-7315
Physics	<a href="http://www.physics.lsa.umich.edu">www.physics.lsa.umich.edu</a>	313-764-4437
Astronomy	<a href="http://www.astro.lsa.umich.edu">www.astro.lsa.umich.edu</a>	313-764-3440
Geology	<a href="http://www.geo.lsa.umich.edu">www.geo.lsa.umich.edu</a>	313-764-1435
Mathematics	<a href="http://www.math.lsa.umich.edu">www.math.lsa.umich.edu</a>	313-764-0335

Once you have identified a prospective mentor, you must prepare a 3 page research proposal in consultation with your prospective mentor. A complete application will consist of:

- Cover letter describing proposed research, career plans, qualifications, and diversity information
- The 3 page research statement described above
- Curriculum Vitae
- Reprints of publications (if none are available, a key chapter from the dissertation may substitute)
- Official graduate school transcript
- Three letters of reference, one of which must be from the dissertation advisor

Application materials, including reference letters, must be received by May 1, 1997. Awards will be announced at the end of May, 1997. Mail applications to: **Joseph P. Marino, Associate Dean for Research, Computing, and Facilities, University of Michigan - College of Literature, Science, and the Arts, 500 S. State Street, Room 2009A, Ann Arbor, MI 48109-1382.**

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### Marine Biotechnology Institute at Kamaishi and Shimizu Postdoctoral Positions

Marine Biotechnology Institute performs both basic and applied research on marine organisms in two institutes, one at Kamaishi and the other at Shimizu, Japan. Several postdoctoral positions are available to investigate the following research areas.

Applications are invited for postdoctoral positions in chemistry, biochemistry, molecular biology and physiology of marine invertebrates and microorganisms, including microalgae. Fundamental studies on the mass cultivation of marine microalgae will also be emphasized. Each appointment will be initially for one year, and will be renewable for up to three years.

Current research fields are as follows:

#### Kamaishi Institute

- . Hyperthermophiles
- . Symbiosis between marine invertebrates and microalgae
- . Biodegradation of hydrocarbons
- . Photosynthesis of marine microalgae
- . Taxonomy and ecology of marine bacteria and microalgae

#### Shimizu Institute

- . Search for biologically active natural substances produced by marine microorganisms
- . Biofouling - screening of antibiofouling agents and molecular mechanisms of settlement of barnacle

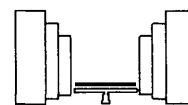
The degree of Ph. D in one of these fields or a related field is required.

Applicants should send a covering letter a statement of research interests, a curriculum vitae, a bibliography, and the names and addresses of three individuals who can be contacted for references.

Deadline for applications is the end of April, 1997.

Applications should be sent to S. Miyachi, Director-General of the Research Institutes, Head Office of Marine Biotechnology Institute, 1-28-10 Hongo, Bunkyo-ku, Tokyo 113, Japan. Fax: +81-3-5684-6200. E-mail: miyachit@super.win.or.jp

Any additional information that may be needed can be obtained by contacting this address.



### THE SALK INSTITUTE

#### ASSISTANT OR ASSOCIATE PROFESSOR IN THE AIDS PROGRAM

The Infectious Diseases Laboratory (IDL) invites applications for an Assistant or Associate Professor position from individuals pursuing research in AIDS Biology, Molecular Biology, Immunology or Virology. The Salk Institute has a very broad research program ranging from AIDS, Neurosciences, Cancer, Structural Biology, Molecular Genetics, Developmental Biology and Plant Biology. Qualified candidates may send their applications to the Search Committee, AIDS Program, The Salk Institute, P.O. Box 85800, San Diego, California 92186-5800, along with a complete curriculum vitae, a short synopsis of future research plans and names of at least three references no later than May 15, 1997.

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#### Director, Max-Planck-Institut für Astronomie

The Max-Planck-Institut für Astronomie invites applications for the position of one of the two Directors at the institute to be appointed following the retirement of Prof. Hans Elsässer in April, 1997. The MPIA has approximately 180 staff, student, and visiting positions. The MPIA runs the Calar Alto observatory in southern Spain with 3.5, 2.2, 1.2m and Schmidt telescopes and uses a substantial fraction of the observing time. It has a major role in the VLT project at ESO including VLTi, it runs a data center for ISO, and it expects to become a partner in the LBT project early in 1997. Candidates must have an outstanding international record of research in astronomy and demonstrated leadership ability. Astronomers or physicists with a strong interest in extragalactic research are preferred, although all fields of astronomical research will be considered. Applications should include a curriculum vitae, list of publications, and a cover letter outlining the current research goals of the candidate as they would be carried out with the resources of the institute. Applications should be sent by April 1, 1997 to:

**Prof. Steven Beckwith**  
Managing Director  
Max-Planck-Institut für Astronomie  
Königstuhl 17  
69117 Heidelberg  
GERMANY

Further information may be found at the website: <http://www.mpia-hd.mpg.de>

#### The University of Heidelberg has openings for Two Full Professorships (C4) in Biochemistry

at the Center of Biochemistry (BZH) which is currently under development. The final structure of the BZH will consist of six Chairs of Biochemistry assigned to the Faculties of Biology, Chemistry and Medicine. They will be housed in one building and share common facilities. When fully operative, the center will house ca. 12-15 independent research groups, including six junior groups, plus a central service unit.

The current focus of research lies in the areas of biogenesis of cell structures and intracellular transport. Presently the University of Heidelberg has six Sonderforschungsbereiche in the areas of Biomedicine and Chemistry.

One of the openings is in the Faculty of Chemistry, the other in the Faculty of Biology. The teaching duties include courses in biochemistry specific for the various disciplines and an interfaculty teaching program addressing students of biology, chemistry and medicine. One of the applicants should have a distinguished research record in structural analysis of biopolymers, such as x-ray crystal structure analysis or NMR, the other in biochemistry of regulatory processes.

Applications including curriculum vitae with teaching experience, list of publications, and a general outline of current and future research should be addressed to Prof. Dr. G. Helmchen, Dekan der Naturwiss., Mathematischen Gesamtfakultät, D-69120, Im Neuenheimer Feld 234 (deadline for application: April 15, 1997).

#### HARVARD MEDICAL SCHOOL Department of Microbiology and Molecular Genetics

#### POSTDOCTORAL RESEARCH FELLOW

Applications are invited from suitable candidates to join studies on aerobic/anaerobic regulation of gene expression in *Escherichia coli*. The applicants should have a significant background in bacterial genetics and physiology; additional experience in biochemistry or enzymology would be desirable. The stipend will be commensurate with experience. Correspondence should be addressed to Prof. E.C.C. Lin, Department of Microbiology and Molecular Genetics, Harvard Medical School, 200 Longwood Avenue, Boston, MA 02115. FAX: (617) 738-7664. Email: [elin@warren.med.harvard.edu](mailto:elin@warren.med.harvard.edu). Applications should be accompanied by curriculum vitae and names and addresses of three references. Harvard University is an equal opportunities employer.



## POSITIONS OPEN

### POSTDOCTORAL POSITIONS IN BIOCHEMICAL TOXICOLOGY

Two **POSTDOCTORAL POSITIONS** available to work as part of effort to characterize macromolecular adducts formed with benzene and other adduct forming chemicals. The objective is to understand the role adducts play in diseases such as cancer. We are seeking one individual with expertise in protein chemistry or protein adduct analysis to identify and characterize protein targets for these chemicals. Emphasis will be placed on the characterization and quantitation of protein adducts using electrophoresis, HPLC and mass spectrometry. We are seeking a second individual with expertise in toxicology or pharmacology to study the kinetics of multiple compound exposures. Successful candidates will be expected to design, conduct, and publish results of studies on these topics and to have recent Ph.D.s in pharmacology, toxicology, biochemistry or related area. This work will be conducted collaboratively between the Molecular Toxicology Group at Lawrence Livermore National Laboratory and the Department of Pharmaceutical Chemistry, University of California San Francisco (UCSF). Send curriculum vitae and names of three referees to: **Mass Spectrometry Facility, Department of Pharmaceutical Chemistry, University of California, San Francisco, CA 94143-0446**. UCSF is an Affirmative Action/Equal Opportunity Employer.

Postdoctoral positions available immediately to study receptor-ligand interaction. Requires recent Ph.D. in Biochemistry, Pharmacology or related field and the ability to work on a research team. Interested candidates please send résumé and three references to: **Dr. Velpandi Ayyavoo/Dr. David B. Weiner, University of Pennsylvania, Room 505, Stellar-Chance Laboratories, 422 Curie Boulevard, Philadelphia, PA 19104-6100**. FAX: 215-573-9436.

## COURSES AND TRAINING

**SUMMER FELLOWSHIPS, REMOTE SENSING—6/2–8/20**. Offered by University of Maryland, Sea Grant Program and NASA for advanced undergraduate and beginning graduate students; includes stipend, housing, travel. Deadline: 10 April. For application: **Maryland Sea Grant College, 0112 Skinner Hall, University of Maryland, College Park, MD 20742**. Telephone: 301-405-6371. Equal Opportunity Employer/Affirmative Action Employer.

### PLANT BIOCHEMISTRY 1997

The DOE/NSF/USDA Triagency supported Plant Biochemistry Research and Training Center at Washington State University will conduct a training course in plant biochemistry July 20–August 1, 1997. The course is designed to teach fundamental principles as well as the latest advances in areas including structure-function of plant organelles; ion transport; photosynthesis; carbohydrate and lipid biosynthesis and metabolism; nitrogen fixation and amino acid metabolism; synthesis, catabolism, physiology and mechanism of action of plant hormones; synthesis and catabolism of unique plant products such as terpenoids, alkaloids, cyanoglucosides; phenylpropanoids; signaling mechanisms in plant defense responses toward pests and pathogens; metabolic regulation; protein synthesis and intracellular targeting of macromolecules. Some funds have been allocated to partially offset travel expenses for up to 65 participants. For further information and an application form, contact: **Ms. Karen Maertens, PBRTC, Institute of Biological Chemistry, 285 Clark Hall, P.O. Box 646340, Washington State University, Pullman, WA 99164-6340**. Telephone: 509-335-5496; FAX: 509-335-7643; Email: maertens@wsu.edu. Application deadline April 15, 1997.

### APPLIED MOLECULAR BIOLOGY

The University of Maryland Baltimore County is accepting applications for its unique 12-month **M.S. PROGRAM** in applied molecular biology. Through two hands-on-intensive laboratory courses, research internship off/on campus and four companion lecture courses, this comprehensive program prepares students for research positions in industry or academia. Information/applications: **UMBC, Department of Biology, Baltimore, MD 21250**. Telephone: 410-455-3669; WWW: <http://www.umbc.edu/biosci>.

## COURSES AND TRAINING

### SUMMER INSTITUTE IN STATISTICAL GENETICS

June 1–14, 1997 at North Carolina State University. A series of three-day workshops on statistics for geneticists; genetics for statisticians; population, quantitative, and forensic genetic data analysis; QTL mapping; sequence analysis; phylogenetic reconstruction; and molecular evolution data. See Web page URL: [http://www2.ncsu.edu/ncsu/CIL/stat\\_genetics/](http://www2.ncsu.edu/ncsu/CIL/stat_genetics/) for details or contact: **Dr. B. S. Weir, FAX: 919-515-7315; Email: weir@stat.ncsu.edu**. North Carolina State University is a land-grant university and constituent institution of The University of North Carolina.

## CONFERENCES

**5TH WORLD CONGRESS Psychiatric Genetics**, 10/19–23/97, Santa Fe, New Mexico. Abstracts due May 1. Topics: brain development/aging; genomic diversity; systematic total genome scan; chromosome-specific findings; defining the phenotype; findings for schizophrenia, bipolar/panic/obsessive-compulsive disorders, autism, alcoholism, drug abuse, mental retardation; academic/industrial collaboration; genetic analysis; neurophysiological and psychological markers; pharmacogenetics; genes sexual preference; genetic epidemiology; behavioral phenotypes; animal models; mutation analysis; ethics; robotics and new technology. Information: 703-925-9455.

April 4–6, 1997, Philadelphia, PA

International Conference: Challenges in the Study of Encephalomyopathies of Mitochondrial Origin. Topics will include: Mitochondrial Genetics; Diagnosis of Mitochondrial Cytopathies; "Non-Invasive" Techniques in the Diagnosis of Encephalomyopathies; Therapy of Mitochondrial Diseases; and Leigh Syndrome Conference. There will be a concordant meeting for parents. For further information contact: **Section of Neurology, St. Christopher's Hospital for Children, Erie Avenue at Front Street, Philadelphia, PA 19134-1095**. Telephone: 215-427-5484; FAX: 215-427-4393.

## ANNOUNCEMENT

### REQUEST FOR APPLICATIONS AVAILABLE

The Center for Indoor Air Research, sponsor of scientific research on a broad range of indoor air topics, has available its 1996–1997 Request for Applications booklet. Applications for January 1, 1998 funding must be received by June 1, 1997. For more information on the Center for Indoor Air Research and/or a copy of the Request for Applications booklet, call or write: **Center for Indoor Air Research, 1099 Winterson Road, Suite 280, Linthicum, MD 21090**. Telephone: 410-684-3777; FAX: 410-684-3729; Email: ciarinc@aol.com.

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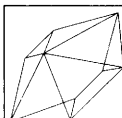
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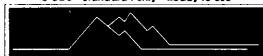
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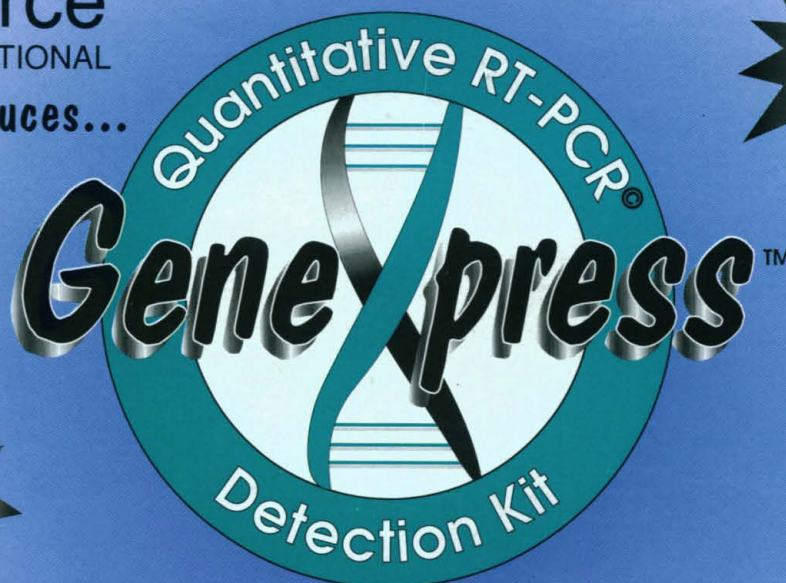
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