

## TECH.SIGHT

### Glow Loading Dyes

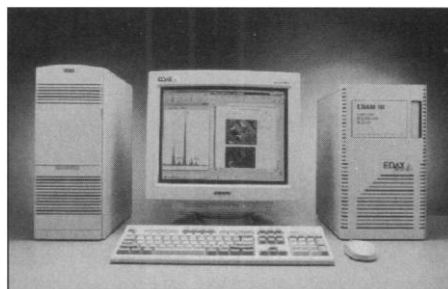
Glow Loading Dyes are premixed and ready to load. They are formulated for optimal performance in general gel electrophoresis applications. Because the dyes contain ethidium bromide, there is no need to add this toxin and potential mutagen to the running buffer. Mixing samples with these dyes before electrophoresis helps eliminate soaking in ethidium bromide solutions. The dyes provide intense DNA and RNA bands with little background or band distortion. **Geno Technology.** For information call 314-534-0075 or circle 141 on the reader service card.

#### PRODUCTS

### Microanalysis System

Phoenix is a powerful Windows NT-based microanalysis system that offers true multitasking and speed. The newest advances in energy dispersive microanalysis are standard on the Phoenix, including digital signal processing, high-speed x-ray mapping and imaging, high-resolution mapping and imaging, and reliable and accurate standardless quantitative analysis. At the heart of the system is the EDAM III (EDAX Data Acquisition Module), which makes use of new PCI bus architecture for fast communication with the

system's dual 200-MHz workstation. The EDAM III makes use of a built-in digital processor for high count rate analysis and fast throughput, along with a newly designed



scan generator for fast image acquisition and high quality x-ray maps. **EDAX.** For information call 201-529-4880 or circle 142 on the reader service card.

### Protein Purification

Activated ALD Cellthru BigBead resin is designed to immobilize ligands that can bind proteins directly from cell culture harvest. The resin increases product recovery and improves process economy by combining clarification, product capture, and concentration into a single operation using standard, low-pressure, packed-bed chromatography columns. The large-size activated resin beads,

300 to 500  $\mu\text{m}$  in diameter, have a protein binding capacity of 30 mg/ml, similar to traditional small particle activated adsorbents. **Sterogene.** For information call 800-535-0735 or circle 143 on the reader service card.

### Diaphragm Pump with Brushless Motor

The micropump SP 500 EC-BL is, according to the manufacturer, the world's smallest excenter-driven diaphragm pump with a brushless motor. The brushless drive with two ball bearings is designed for a maximum lifetime. The capacity is about 2 liter/min and 800 mbar. Typical applications are gas detectors, lab and medical appliances, and other OEM uses. **Schwarzer Präzision.** For information call 0201 510001 or circle 144 on the reader service card.

### Fluorochrome Reagents

A selection of host-specific secondary immunoreagents is available for multicolor detection in flow cytometry, fluorescence microscopy, and fluorescence-activated cell sorting. Goat antibodies to mouse, rabbit, rat, and other species are affinity-purified and adsorbed



**FONDATION ARES-SERONO**  
THE ARES-SERONO FOUNDATION

## The Ares-Serono Foundation Fellowships in Biomedicine 1997 Award Announcement of Winners FELLOWSHIPS IN IMMUNOLOGY

The Ares-Serono Foundation is very proud to announce the **2 winners** of the Immunology Fellowship program:

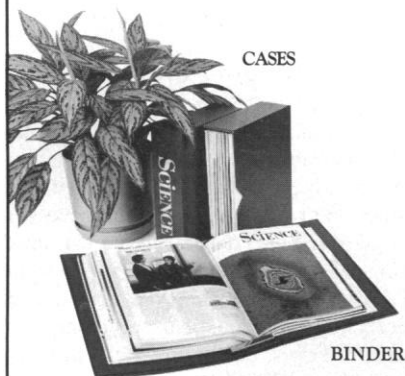
**Joseph Dal Porto - National Jewish Medical Research Center, Denver, CO - USA**  
**Ji Yun Kim - Stanford University of Medicine, Palo Alto, CA - USA**

The announcement offering this fellowship program focused on research areas of neuroimmunology and autoimmunity indicated there would be two winners. The response was enthusiastic and over 100 applications were received from all corners of the world. The evaluation phases were meticulously carried out. All the applications were reviewed by The Ares-Serono Foundation Board Members and 15 finalists were selected as outstanding. These latter were submitted for review to distinguished referees from academic institutes in the USA and UK, and following this phase, there were 2 projects unanimously scored as being of equal scientific merit. The Ares-Serono Foundation wishes to thank all the individuals who took part in the 1997 Immunology Fellowship competition.

### Fellowship Terms

- Full-time postdoctoral training
- 2 years of support
- USD 40,000 annual grant towards expenses for postdoctoral training

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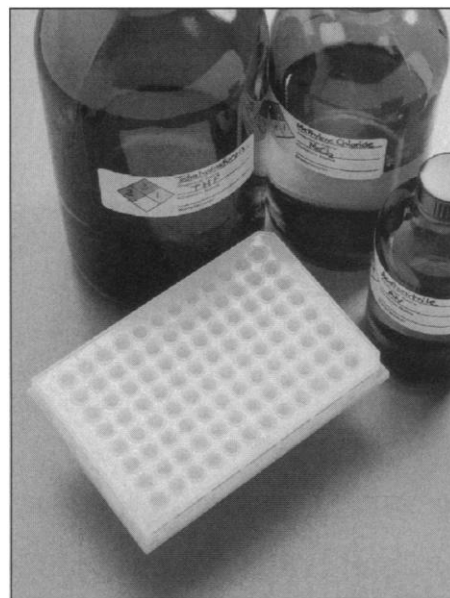
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against related species to essentially eliminate cross-reactivity. Antibody conjugates and streptavidin, avidin, and anti-biotin are labeled with a range of fluorochromes, including the cyanine dyes, phycoerythrin, Texas Red fluorescein, and rhodamine. **Kirkegaard & Perry Laboratories.** For information call 800-638-3167 or circle 145 on the reader service card.

## Solvent-Based Separations

MultiScreen Resist plates are for applications such as combinatorial bead cleavage, where resistance to strong solvents is critical to the separation. The 96-well plates make high-throughput screening for drug discovery quicker and easier. The plates offer high



recoveries, excellent incubation capabilities, a choice of filtrate receiver plates, high bead visibility, and a single inert filter for aqueous or hydrophobic chemicals. **Millipore.** For information call 617-275-9200 or circle 146 on the reader service card.

## Amplification System for Enzyme Immunoassays

Dako AmpliQ is a unique enzyme cycling system designed to amplify the signal generated by alkaline phosphatase. Amplification factors of 100 times on the signal from the primary enzyme can be achieved. The system is suitable for all immunoassay formats in which a colored product is required, such as tubes, beads, and microplates. AmpliQ's

ready-to-use liquid reagents are supplied in dropper bottles and require only one timed step. **Dako.** For information call 800-235-5763 or circle 147 on the reader service card.

## Chemist's Bench LC/MS

The API 165 LC/MS is a rugged, high-performance, single-quadrupole liquid chromatography/mass spectrometry (LC/MS) system that delivers accurate molecular weights at high sensitivity and resolution. It features a space-saving footprint and an atmospheric pressure ionization (API) interface with a patented gas curtain. The system's mass range handles analytes from small molecules to large proteins. Applications include routine and combinatorial chemistry, pharmacology, and protein and peptide characterization. Available with a choice of inlets ranging from IonSpray to APCI (heated nebulizer), the unit is capable of analyzing a vast range of compounds with varying structures, polarities, and molecular weights. **PE SCIEX/Perkin-Elmer.** For information call 800-345-5224 or circle 148 on the reader service card.

## Literature

*Laboratory Filtration Catalog* and reference guide features membranes for microfiltration applications including cytology, chemotaxis, food and beverage testing, liposome extrusion, environmental analysis, clarification, particle sizing, water microbiology, pharmaceutical applications, epifluorescence microscopy, and more. **Corning.** For information call 800-882-7711 or circle 149 on the reader service card.

*Chemical, Safety, and Laboratory Products Catalog* contains 1250 pages with 2000 new chemicals, including organic and inorganic chemicals, solutions, deuterated nuclear magnetic resonance solvents, and high-purity solvents. It includes technical specifications, hazard data, and shipping information. The safety equipment section includes personal protective equipment, chemical handling and storage items, spill control products, monitors and detectors, and compliance products. **Spectrum Quality Products.** For information call 310-516-8000 or circle 150 on the reader service card.

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

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## POSITIONS OPEN

### KWANGJU INSTITUTE OF SCIENCE AND TECHNOLOGY (K-JIST), DEPARTMENT OF LIFE SCIENCE, KOREA TENURE-TRACK FACULTY POSITIONS

**LECTURER POSITIONS** (molecular biology, biochemistry or physiology) at the associate or full professor level are available to teach graduate courses in biochemistry, molecular biology, or physiology. Applicants should have a Ph.D. in molecular biology, biochemistry, physiology, or in related fields and a strong commitment to the teaching of graduate courses for Master's degree and Ph.D. students. Superb communicating skills in English as a native language are preferred. K-JIST is fully supported by the Korean government and committed to excellent education and research. We offer competitive salary and fringe benefits, including faculty housing, commensurate with qualification and experience. The institute has a mandatory retirement age of 65. General information on the Department of Life Science at K-JIST may be obtained from a website at: <http://www.kjist.ac.kr>.

Please send curriculum vitae, publication list, and three letters of reference by mail or FAX to: Faculty Search Committee, The Academic Affairs Section, Kwangju Institute of Science and Technology (K-JIST), Kwangsan-ku, Kwangju, 506-712, Korea. Telephone: +82-62-970-2044; FAX: +82-62-970-2049. First screening will consider applications received by October 31, 1997.

### TENURE-TRACK FACULTY POSITIONS DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY SUNY Health Science Center at Syracuse

The Department of Microbiology and Immunology at the SUNY Health Science Center at Syracuse invites applications for two tenure-track, full-time positions at the Assistant Professor level. Candidates must have potential to establish an independent research program using cellular and/or molecular approaches in the areas of virology or immunology. Competitive applicants will have a Ph.D. degree or equivalent, postdoctoral experience, and a record of innovative research productivity. Salary, space, and start-up funds are competitive with national levels. More information about our program can be obtained from our website at: <http://micro.ec.hscsyr.edu/microb/>. Applications, including a statement of research interests and goals, a curriculum vitae, and three letters of reference, should be sent to: Steven M. Taffet, Ph.D., Chair of the Search Committee, Department of Microbiology and Immunology, SUNY Health Science Center at Syracuse, 750 East Adams Avenue, Syracuse, NY 13210. The deadline for applications is September 1, 1997.

The SUNY Health Science Center at Syracuse is an Equal Opportunity/Affirmative Action Employer.

### RESEARCH FACULTY POSITION YALE UNIVERSITY SCHOOL OF MEDICINE

The Section of Pulmonary and Critical Care Medicine of the Department of Internal Medicine of Yale University School of Medicine invites applications for a research faculty position at the Associate Research Scientist level. Outstanding candidates with a Ph.D. or M.D. degree will be considered. Experience in molecular and cell biology is essential. Interest in inflammation, cytokine biology, and virology is highly desirable. The chosen candidate will work in NIH-funded Specialized Center of Research (SCOR) on research projects focusing on cytokines, viruses, and asthma. Please respond with curriculum vitae and three letters of recommendation to:

Jack A. Elias, M.D.  
Professor of Medicine  
Chief of Pulmonary and Critical Care Medicine  
Yale University School of Medicine  
Section of Pulmonary and Critical Care Medicine  
Department of Internal Medicine  
333 Cedar Street  
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New Haven, CT 06520-8057  
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## POSITIONS OPEN

### STANFORD UNIVERSITY DEPARTMENT OF CHEMISTRY

Several positions available for tenure-track faculty appointments, open rank, in the general areas of **ORGANIC CHEMISTRY** or **PHYSICAL CHEMISTRY**. Completed applications must be received by October 15, 1997. Appointment commences on September 1, 1998. Applicants must be strongly motivated toward creative research and have a commitment to teaching at the undergraduate and graduate levels.

Applications in the general area of organic chemistry should include a current curriculum vitae and list of publications and a brief statement of research interests (three pages or less), and arrange to have three letters of reference sent on your behalf, to:

Chair, 1997-98 Organic Chemistry  
Search Committee  
Department of Chemistry  
Stanford University  
Stanford, CA 94305-5080

Applications in the general area of physical chemistry should include a current curriculum vitae and list of publications and a brief statement of research interests (three pages or less), and arrange to have three letters of reference sent on your behalf, to:

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### FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Pharmacology at the University of California, Irvine (UCI) invites applications for a tenure or tenure-track faculty position at the level of Assistant, Associate, or Full Professor. We seek a scholar with a proven record of research accomplishment in molecular biology who has an interest in the function of neurotransmitters and receptors. Special consideration will be given to candidates with expertise and publications in gene knockout procedures. Other qualifications include an M.D. and/or Ph.D. in pharmacology or a related field and an interest and talent for teaching. Curriculum vitae, references, and a summary of research interests should be sent to: Professor S. Duckles, Chair Search Committee, Department of Pharmacology, College of Medicine, University of California, Irvine, Irvine, CA 92697-4625. UCI is an Affirmative Action/Equal Opportunity Employer.

**GRECC DIRECTOR.** Director of the Geriatric Research Education and Clinical Center at the Veterans Affairs Medical Center at Little Rock, Arkansas. M.D.'s or M.D./Ph.D.'s with an established record of research productivity in diseases of the elderly, including health service research, are invited. Expertise in some area of clinical geriatrics is also required. The selected applicant will have a joint appointment at the University of Arkansas for Medical Sciences (UAMS) at the level of Full Professor and will also serve as the Vice Chair of the recently founded Donald W. Reynolds Department of Geriatrics. Interested candidates should send a description of their special interest areas, curriculum vitae, and a list of references to: Stavros C. Manolagas, M.D., Ph.D., University of Arkansas School of Medicine, Slot 587, 4301 West Markham, Little Rock, AR 72203. Closing date for applications is August 31, 1997. Equal Opportunity Employer.

**DIRECTOR OF MOLECULAR BIOLOGY.** Research Faculty Tract level, University of Pennsylvania, Department of Otorhinolaryngology: Head and Neck Surgery. Major focus will be to identify molecular determinants predictive of tumor responsiveness to chemotherapy and radiation. Must have documented experience with PCR, DNA, RNA analysis and gene cloning. Opportunities exist for a strong collaboration with basic science departments, graduate training, and mentoring physician-scientists. Academic rank will be commensurate with experience. Inquiries: Telephone: 215-662-4744. Applications to: Randal S. Weber, M.D., Director, Center for Head and Neck Cancer, Department of Otorhinolaryngology: Head and Neck Surgery, University of Pennsylvania Medical Center, 3400 Spruce Street/5 Ravdin, Philadelphia, PA 19104. An Equal Opportunity/Affirmative Action Employer.

## RESEARCH FISHERY BIOLOGIST

The Southwest Fisheries Science Center (SWFSC) of the National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), located in La Jolla (San Diego), California is seeking qualified candidates for a Research Fishery Biologist at the GS-11/12 levels for its Antarctic Ecosystem Research Group. The Group coordinates and conducts research on the Antarctic marine ecosystem and provides advice to the U.S. Delegation to the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR). Selected individual will be responsible for coordinating and conducting research on population dynamics and status of Antarctic finfish, crabs, and krill and will investigate applicability of existing predator/prey ecosystems model (Mangel's model) and present results. Responsible for management, design, and setup of trawl survey system for stock assessment field studies, analyzes resultant data, and submits results for review to CCAMLR Fish Stock Assessment Working Group (WG-FSA). Analyses of finfish surveys are also submitted to peer-reviewed journals. Participates in WG-FSA and scientific committee meetings.

**Qualifications:** **A.** Bachelor's or higher degree with major study in biological science that included (1) at least 6 semester hours in aquatic subjects such as limnology, ichthyology, fishery biology, aquatic botany, oceanography, fish culture, or related courses in the field of fishery biology, and (2) at least 12 semester hours in the animal sciences in such subjects as general zoology, vertebrate zoology, comparative anatomy, physiology, entomology, parasitology, ecology, cellular biology, genetics, or research in these fields. (Excess course work in aquatic subjects may be used to meet this requirement when appropriate.) **or B.** Combination of education and experience—courses equivalent to a major as shown in A above, plus appropriate experience or additional education. In addition, to be eligible candidates must have, at a minimum, the equivalent of at least 1 year of specialized experience comparable to the next lower level in the federal service. In particular, candidates are sought with experience conducting field research gathering data needed to assess fish population abundance and status. In addition, candidates must have demonstrated ability to provide scientific, managerial, and personal leadership for a field team investigating fish population dynamics and demonstrated ability to analyze the resultant data and present findings to an international group of scientists with similar backgrounds.

**How to apply:** *This position is in the Federal Competitive Service and is only open to U.S. citizens.* However, persons with no previous federal service are encouraged to apply. Applicants should refer to announcement number **W/NMF/97291.CM** when submitting applications to: **Western Administrative Support Center, Human Resources Division, 7600 Sand Point Way NE, Seattle, WA 98115.** Applications should consist of a résumé, OPM Form 1170/17 (List of College Courses) or a copy of college transcript(s), preappointment certification statement for Selective Service registration (applicable to males born after 12/31/59) and documentation of any claim of veteran's preference (government forms DD-214 or SF-15). Statements should address the following ranking factors: (1) Skill in mathematical modeling of biological or ecological subjects, including habitats and/or ecosystems; (2) Knowledge of principles of fish population dynamics, biology, and/or ecology; (3) Ability to explore mathematical and computer models for properties such as optimality, sensitivity, and robustness; (4) Skill in application of computers to solving scientific problems; (5) Skill in written and oral communication.

For additional application information, call **Cheryl Morisaki at (206) 526-6059.** Applications should be postmarked no later than August 30, 1997. *The U.S. Department of Commerce does not condone nor tolerate discrimination based on race, color, religion, sex, national origin, age, physical or mental disability, or sexual orientation.*

## Associate Scientist

### Signal Transducing Molecules

Located in the San Francisco Bay Area, **Onyx Pharmaceuticals** is a dynamic young company dedicated to the development of novel therapeutics for cancer and other diseases associated with abnormal cell growth. We currently have an excellent opportunity for an experienced Associate Scientist to join our growing multidisciplinary team focused on the study of signal transducing molecules involved in phagocytes activation.

You will study the role of PLD, PI3, Kinase, and lipid stimulated kinases in phagocyte activation, and assist in the development of assays for PI3 kinase and PLD. The position requires a Ph.D., at least 2 years' post doctoral training in lipid & protein biochemistry, and a background in signal transduction & cell biology. Experience in neutrophil biology is highly desirable.

Our current scientific team is a highly motivated group with a strong interest in creating a world-class pharmaceutical company. A highly interactive atmosphere prevails, where publications and open discussions are encouraged. To apply, please send/fax resume and a list of references to: **ONYX Pharmaceuticals, (Attn: Job# 97S-30-AA), 3031 Research Drive, Richmond, CA 94806-5206.** Fax: (510) 222-9758 or Email to: [denise@onyx-pharm.com](mailto:denise@onyx-pharm.com). *Equal Opportunity Employer*

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## POST DOCTORAL RESEARCH SCIENTIST

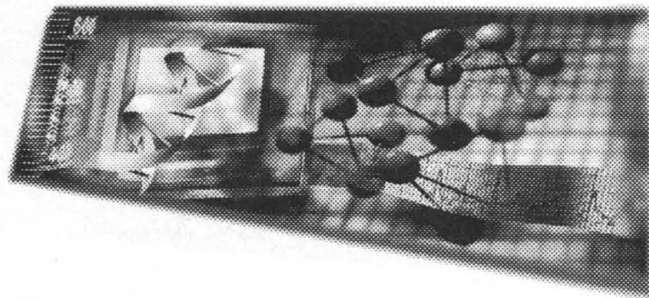
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### **POSTDOCTORAL FELLOW - Antiviral Chemotherapy**

An opportunity exists for a PhD in Molecular and Cellular Biology/Virology to be involved in the study of viral gene products and their role in viral replication. Experience in gene expression, mutagenesis and tissue culture is required. Working experience with RNA viruses is preferred, but not essential. To be considered for this position, please reference Dept. BD/PC.

### **ASSISTANT/ASSOCIATE SCIENTIST - Antifungal Target Evaluation**

We seek a talented scientist with a Bachelor's or Master's degree and 0-4 years of related experience. A strong background in biochemistry, microbial genetics or molecular biology is required for implementation of antifungal targets. Experience in assay development and high through-put screening is a plus. To be considered for this position, please reference Dept. KS-AS/PC.

### **ASSISTANT SCIENTISTS - Natural Products**

We are currently seeking two talented Chemist/Biochemists to join our Natural Products Isolation Group. One of the successful individuals will conduct bioassay-guided isolation and structure elucidation of the drug candidates from marine, plant and microbial sources. Background in HPLC instrumentation and methodology and spectroscopic techniques is required. The second candidate will prepare and characterize our microbial extracts, and conduct bioassays for the isolation of drug candidates from natural sources. The individual should be proficient in HPLC instrumentation and biochemical techniques. Familiarity with database management and automation is a definite plus. To qualify, you will need a BS in Chemistry or Biochemistry with 0-4 years of experience or an MS degree with 0-2 years of experience. Excellent oral and written communication skills and the ability to collaborate with scientists from many disciplines are essential. To be considered for these positions please reference Dept. TH/PC.

### **ASSOCIATE SCIENTIST - Microbial Genetics**

An excellent opportunity is available for a versatile, organized and highly motivated scientist to join an interdisciplinary team involved in Actinomycete molecular biology and the production of secondary metabolites. To qualify, you will need a BS degree in Molecular Biology or related discipline and 2-7 years of experience or an MS degree and 0-4 years of experience. Background must include expertise in microbial genetics as well as a solid knowledge of molecular biology and biochemical techniques. Familiarity with secondary metabolite production and actinomycete biology is helpful. Demonstrated ability to work both independently and as an effective team member is critical. To be considered for this position, please reference Dept. TH/PC.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to apply on-line at <http://www.sp-research.com> or send a scannable resume and cover letter referencing the Dept. Code for your position of interest, original copy only, to: Human Resources-PC, Schering-Plough Research Institute, 2015 Galloping Hill Road, K-15, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. *We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.*



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The successful candidate should possess a Ph.D. and postdoctoral experience in molecular biology and cell biology and seven years of industrial experience including cGMP familiarity. The scientist should have demonstrated success optimizing expression, manipulating protein processing and post-translational modification in a variety of cell lines. Leadership and team building experience a must. The job requires regular interactions and handoffs with other groups including discovery scientists who provide preliminary cell lines producing potential therapeutic products, analytical and other groups who support the development efforts, cell culture scientists who optimize and scale up cell culture, regulatory, QA and QC staff who insure compliance and support registration of products.

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**DIRECTOR,  
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RESEARCH INSTITUTE**

The Geraldine Brush Cancer Research Institute (GBCRI), a division of the California Pacific Medical Center Research Institute (CPMRI), invites applications for the Director's position. The Research Institute is part of California Pacific Medical Center, a 1,100-licensed-bed academic medical center affiliated with the Sutter/CHS healthcare system. The investigators of GBCRI, mainly supported by extramural funding, conduct research in a variety of areas related to cancer biology. Strong collaborative relations exist with the breast cancer research program at the University of California, San Francisco, including an ongoing Program Project grant and a SPORC grant, both funded by the National Cancer Institute.

Applicants must have a Ph.D. or M.D., an active research program in cancer supported by extramural funding, and a strong record of scientific achievement. The successful candidate should have the vision and interpersonal skills essential to further develop and to lead GBCRI research into the next century.

We offer a competitive compensation and excellent benefits package. Please send resume, a history of research activities and support, a short description of future research objectives, and the names of three references to: California Pacific Medical Center, Human Resources, Attn: D. Henderson, P.O. Box 7999, San Francisco, CA 94120 or FAX (415) 885-8633. EOE.

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PACIFIC**  
MEDICAL CENTER

Geniva, a wholly-owned subsidiary of PowderJect Pharmaceuticals plc, is seeking highly motivated individuals to join an outstanding research team in the development of DNA vaccine products. Geniva has developed a distinctive technological expertise focused on the use of DNA to generate immune responses which has broad potential prophylactic and therapeutic utility in infectious diseases, cancer, and other diseases such as autoimmune disorders. The foundation for this expertise is the Company's proprietary gene transfer technology, the gene gun.

**Scientist—Cellular Immunology**

Position available to lead the cellular immunology department. Candidates must hold a Ph.D. with at least 10 years postdoctoral experience, preferably in industry. Investigators should have expertise in cell biology, immunology or related field with an emphasis in cell-mediated immunity. This position reports to the V.P., R&D.

**Scientist—Mucosal Immunology**

Position available to lead the mucosal immunology department. Candidates must hold a Ph.D. with at least 10 years postdoctoral experience, preferably in industry. Investigators should have expertise in immunology or related field with an emphasis in local immunity of mucosal tissues. This position reports to the V.P., R&D.

Geniva offers a competitive salary and a comprehensive benefits package. Our R&D facility, located in Madison, Wisconsin near the University of Wisconsin, provides an ideal setting for both career and lifestyle enhancement.



Please send your C.V. to:  
**Human Resources**  
585 Science Drive, Suite C  
Madison, WI 53711  
Fax: (608) 231-6990

**Postdoctoral Fellowships**

The UNC Lineberger Comprehensive Cancer Center of the University of North Carolina at Chapel Hill will have openings in 1997-98 in its training program, now in its 23rd year, for persons completing graduate studies to train with excellent investigators in basic research in tumor virology, molecular carcinogenesis, molecular therapeutics, cancer cell biology, genetics, tumor immunology and research that interfaces with clinical and physical sciences. Training is available in DNA repair, replication and mutagenesis; regulation of cellular proliferation and differentiation including growth factors, signal transduction pathways and intercellular communication; molecular immunology; molecular genetics and epidemiology of cancer; and human disease models and gene therapy. Unique training resources and core facilities are supported by the NCI-designated UNC Lineberger Comprehensive Cancer Center.

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

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

**Joseph S. Pagano, M.D.**  
CB# 7295

**UNC Lineberger Comprehensive Cancer Center**  
School of Medicine  
University of North Carolina at Chapel Hill  
Chapel Hill, NC 27599-7295

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

# IN IT FOR LIFE.

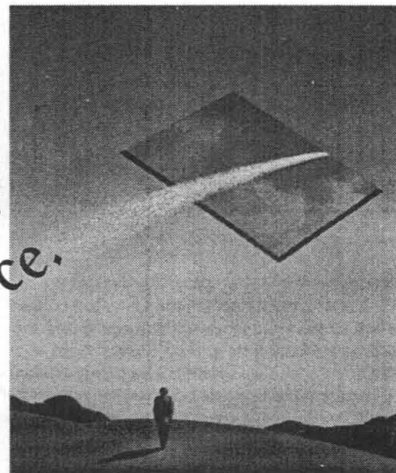
*Improving life by advancing science.*

Since opening our doors back in 1980, Genetics Institute has been a leader in the biotechnology industry in discovering, commercializing and collaborating with academia and the pharmaceutical industry on novel protein therapeutics. To date, nine of these have advanced to human clinical evaluation or commercialization, and the outlook for continued innovation is unprecedented.

On December 31st, 1996, Genetics Institute became a wholly-owned subsidiary of American Home Products (NYSE:AHP). American Home Products is one of the world's largest research-based pharmaceutical and healthcare products companies, and is a leading developer, manufacturer and marketer of prescription drugs and over-the-counter medication.

Our success as one of the largest biotechnology employers in Massachusetts has been fueled by our collaborative work environment focused on the future. This culture attracts and inspires some of the brightest minds whose ideas sustain us as a leader in the industry.

Join us in making even more advancements that improve quality of life for all of us:



## ANDOVER, MA

### BIOPHARMACEUTICAL CHARACTERIZATION AND ANALYSIS

#### Mass Spectrometry Laboratory Head

This is a senior position, requiring a scientist with extensive knowledge in biochemical mass spectrometry and biochemical structural analysis as applied to glycoproteins to lead our mass spectrometry group focused on the development and application of mass spectrometry for the structural analysis of proteins, glycoproteins, and carbohydrates. Specific responsibilities include helping define and implement MS-based strategies for the analysis of recombinant therapeutics. Candidates should be comfortable working at the interface of analytical chemistry, biochemistry, and cell biology. Experience in chromatographic separation methods, micro-sample handling techniques, or other methods for protein/carbohydrate structural analysis helpful. Excellent communication skills and the ability/desire to work in a multidisciplinary, team-oriented environment essential. Experience in the biopharmaceutical industry is desirable.

(Job Code: SC725-PL-403)

#### Bioassay Group Head

Manage our Bioassay Development and Support Group with responsibility for optimization and validation of cell-based bioassays, and their use to provide routine support for Development, Manufacturing, and Stability programs. As such, the support laboratories are maintained and operated to be compliant with GMPs. To qualify, you must have an MS or Ph.D. in Biology or a related field, and a minimum of 5 - 8 years of experience working with cell-based bioassays. Demonstrated management skills and a working knowledge of GMP are essential. Familiarity with the use of computers in data analysis and statistics would be an advantage.

(Job Code: SC725-PL-404)

#### Assay Support and Development Staff

Three positions are available due to group expansion - two at Development/Associate Scientist level, one at Staff Scientist level. Responsibilities involve contributing to the implementation and validation of various biochemical assays in support of process/product development, and eventual transfer to QC. Support also covers protein biopharmaceutical materials destined for preclinical and clinical use, requiring operation in accordance with GMP. Development/Associate level positions require BS and 3 - 5 years of laboratory experience with standard protein analytical techniques, including HPLC and Gel Electrophoresis. Experience with GMP and familiarity with computers and data analysis techniques would be a definite advantage. Staff Scientist position requires 3 - 5 years of post doctoral experience in protein analysis, supervisory experience, and knowledge of GMP.

(Job Code: SC725-PL-406)

To be considered for current or future job openings, please send resumes, suitable for scanning (see below), indicating job code to: Human Resources Dept., Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140. Fax: (617) 876-8847.

Scannable resumes should be forwarded on plain white bond paper, using standard types and fonts, and no bold or italic print. When faxing resumes, please also mail an original copy.

Genetics Institute offers competitive salaries and benefits, including comprehensive health care, dental and life insurance, three weeks' paid vacation, 401(k), pension plan, relocation assistance, tuition assistance, and an on-site exercise facility.

Genetics Institute is an equal opportunity, affirmative action employer, M/F/D/V, dedicated to building strength through diversity.

For additional opportunities, visit our web site at:

[www.genetics.com](http://www.genetics.com)

GENETICS  INSTITUTE®

*Harnessing the Body's Power to Heal™*



*The transition from theory  
to practical application transforms  
molecules to medicines*

## **BIOTRANSFORMATIONS/BIOCATALYSIS AT SCHERING-PLOUGH**

At Schering-Plough's development operations in Kenilworth, NJ, our mission is the application of biocatalysis as the enabling technology in the development of new synthetic routes for the efficient and cost-effective production of compounds of clinical and commercial importance. To perform the necessary catalyst discovery and catalytic process development, this highly interdisciplinary group applies organic chemistry, microbiology and molecular biology to synthetic problems, ranging from bench-scale to pilot plant.

### **SENIOR/PRINCIPAL SCIENTIST** *Biotransformations*

As a member of our Biotransformations Group, you will develop synthetic processes catalyzed by whole cells. To qualify, you will need a PhD in Microbiology or a related discipline and 0-7 years of academic or industrial experience. Hiring level will be commensurate with your years of experience. Expertise in microbial physiology and molecular biology is essential. Experience in cloning and expression of redox enzyme proteins (P450, dioxygenases, reductase, etc.), manipulations of metabolic pathways, and screen and isolation of novel microbes is highly desirable. Supervisory skills are a plus. To be considered for this position, please reference Dept. BD97-14-JW.

### **SENIOR SCIENTIST** *Biotransformations*

As a member of our Biotransformations Group, you will support the development of a synthetic process catalyzed by both isolated enzymes and whole cells. To qualify, you will need a PhD in Biochemistry or a related discipline and 0-4 years of postdoctoral experience. Expertise in molecular biology and enzymology is essential. Experience in synthetic organic chemistry and analytical instrumentation (HPLC, GC, NMR, IR, MS) is highly desirable. To be considered for this position, please reference Dept. CD97-22-JW.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to apply on-line at <http://www.sp-research.com> or send a scannable resume and cover letter, original copy only, referencing the Dept. Code for your position of interest, to: Schering-Plough Research Institute, MS #1250, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. 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

## **RESEARCH BIOLOGIST**

The Department of Laboratory Animal Resources, Merck Research Laboratories, has an opening for a Research Biologist. The successful candidate will be part of a transgenic core group that supports generation and preservation of transgenic and knockout rodents in an AAALAC-accredited barrier facility. The successful candidate must be able to skillfully generate mice by pronuclear microinjection and ES cell injection. Excellent writing and record-keeping skills along with computer literacy are essential. A BS degree and 2+ years of experience are required. AALAS certification (LAT or LATg) is preferred.

Merck Research Laboratories are located in Rahway, NJ, approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. For consideration, send your resume and the names of three references to: **Merck Research Laboratories, Human Resources, AD #44, P.O. Box 2000, Rahway, NJ 07065.** EEO/AA/VH Employer.



**MERCK**

Research Laboratories

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

### **SCIENTIST** **ROBOTIC/AUTOMATED HIGH-THROUGHPUT SCREENING**

We are looking for a BS/MS level scientist with expertise in Robotic/Automated liquid handling in our high-throughput screening facility. Experience with pipetting workstations and robotic systems essential. 2 to 5 years' experience required. Supervisory experience would be ideal.

Mitotix offers competitive salaries, benefits and a chance to work in an exciting scientific environment. Please send resume, indicating **Job Code HTSB97** to: **Human Resources, Mitotix, Inc., One Kendall Sq., Bldg. 600, Cambridge, MA 02139.** No telephone calls please.



**Mitotix**  
INCORPORATED



# MYRIAD GENETICS, INC.

Myriad Genetics is an innovative genomics company focused on the isolation of significant disease-causing genes. Our scientific achievements include elucidating the role of the p16 tumor suppressor gene in cancer and identifying genes involved in breast, ovarian, and brain cancer. We currently have major programs in asthma, cancer, central nervous system disorders, coronary heart disease, diabetes, obesity, and osteoporosis. Expansion of our gene identification and characterization efforts provides a number of exciting opportunities for highly motivated individuals. These include:

## SCIENTISTS

- You will lead a group of investigators who are developing and implementing automated, high-throughput assays to understand gene function. The successful candidate will possess a Ph.D. or equivalent in molecular biology and 2-5 years' of relevant experience. A strong background in genetics of model organisms such as yeast, *C. elegans* or *Drosophila* is desired, experience with two-hybrid assays a plus. Excellent verbal and written communication skills are also essential.
- You will lead a team to identify genetic defects underlying common human diseases by positional cloning. Requires a Ph.D. with 2-5 years of relevant postdoctoral experience. Broad background in human or model organism genetics, molecular biology or biochemistry required.

## RESEARCH ASSOCIATES

- You will be part of a team that is developing and implementing high-throughput assays to understand gene function. Requires an MS or BS degree and a minimum of two years' experience in molecular biology. Familiarity with construction and screening of cDNA libraries, PCR, and other molecular biology techniques is essential.
- You will be part of a team responsible for identifying genetic defects underlying common human diseases by positional cloning. Requires a MS or BS degree and a minimum of two years' experience in molecular biology.

## SEQUENCE ANALYSTS

You will be part of an informatics team that is analyzing molecular sequence data and curating a database of biological information. Requires a MS or BS degree in biology and relevant computer (UNIX, MacOS) experience. Familiarity with GenBank, search algorithms (e.g. Blast), and assembling molecular sequence data is required.

We offer an attractive compensation package and a stimulating, interactive research environment. Please mail or fax your letter of interest and include a complete resume and the names of three professional references to: Human Resources Department, Myriad Genetics, Inc., 320 Wakara Way, Salt Lake City, UT 84108. Fax: 801-584-3640. We are an equal opportunity employer. To learn more about Myriad Genetics, visit our web page at: <http://www.myriad.com>.



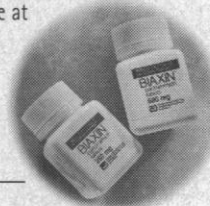
THE WORLD DEPENDS ON THE

Commitment

Of Our Clinical Professionals.

Revolutionary new products from a commitment to research excellence.

A commitment to redefining the future of health care. That's Abbott Laboratories, and it's the talent of our professionals that makes us the health care leader we are today. If you're looking for a professional environment built on innovation, take a look at the opportunities available at Abbott Laboratories. Currently, our Pharmaceutical Products Division is meeting our commitment with several innovative breakthroughs, and now seeks the following individuals:



## MASS SPECTROMETRIST

Working in a fast-paced, creative, multi-disciplinary environment, the successful candidate will be responsible for developing and implementing mass spectrometry methods for combinatorial library screening and will perform separation, purification and mass spectrometry analysis of complex library samples. The position will be a part of a large group devoted to screening combinatorial libraries using a variety of methods. The successful candidate will work on multiple projects simultaneously in a lab with state of the art mass spectrometry facilities including high field FTMS and Q-TOF instruments. This challenging position requires excellent written and interpersonal skills.

We require a Ph.D. in analytical chemistry or organic chemistry with a record of successful research in mass spectrometry. Experience in LC/MS, CE/MS or FTMS is preferred. Previous experience in combinatorial screening such as affinity selection-mass spectrometry is desirable but not required.

With 52,000 employees worldwide and over \$11 billion in annual sales, we've established ourselves as a respected and innovative leader in the health care industry. We offer an outstanding compensation and benefits package including profit sharing and a stock retirement plan. In addition, we are located in an attractive suburban setting approximately 30 miles north of Chicago. For confidential consideration, please send your resume with salary history to: Abbott Laboratories, Job #97-LAM-0735, D583, AP9A(LL), 100 Abbott Park Rd, Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/ Smoke-Free Environment.

**ABBOTT  
LABORATORIES**  
Quality Health Care Worldwide

## POSITIONS OPEN

### ASSISTANT PROFESSOR Non-Tenure-Track

The Department of Neurology at the University of Minnesota is seeking an M.D. or Ph.D. neuroscientist with postdoctoral training in functional neuroimaging to join an international NIH-funded research consortium. The successful candidate will participate in the design and performance of PET and functional MRI (fMRI) studies and the analysis of neuroimaging datasets using multivariate statistical techniques. He/she will be expected to collaborate with consortium researchers in the United States, Japan, and Denmark and to carry out independent research in neuroscience or neuroinformatics related to the stated goals of the Human Brain Project (HBP). Applicants must be eligible for employment at the **ASSISTANT PROFESSOR** level. In addition to an M.D. or Ph.D. degree in neuroscience, neurophysiology, neuropsychology, or related discipline and at least two years of relevant postdoctoral research experience, all applicants should have demonstrated expertise in functional neuroimaging (PET and/or fMRI), a working knowledge of statistics, and experience with program development on a UNIX platform. For more information about the Minneapolis VA Medical Center/University of Minnesota PET program and the University of Minnesota HBP PET-fMRI research program, see: <http://pet.med.va.gov:8080/hbp.html>. A curriculum vitae and bibliography and three references must be received by: **David A. Rotenberg, M.D., VA Medical Center (11P), Minneapolis, MN 55417** before September 15, 1997.

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

### RESEARCH ASSOCIATE

A non-tenure-track position to maintain and operate sequential ICP instrumentation and to assist the Director in nutritional, environmental, and research analyses. Familiarity with GLP regulations and strong oral and written communications considered valuable assets. M.S. in analytical chemistry, chemistry, biochemistry, or equivalent is a minimum, with analytical experiences to include ICP, GLC, and HPLC. Salary range is \$25,000 to \$30,000 annually. Interested applicants please send a cover letter, résumé, and three letters of reference to: **Dr. Thomas Mawhinney, Director, Experiment Station Chemical Laboratories, College of Agriculture, Food and Natural Resources, Room 4, Agriculture Building, University of Missouri, Columbia, Missouri 65211**. The search will continue until position is filled. *Females and minorities are encouraged to apply. The University of Missouri is an Equal Employment Opportunity/Affirmative Action Employer.*

**BIOMEDICAL PHYSICIST.** The Department of Physics at Oakland University invites applications for a tenure-track **ASSISTANT PROFESSOR** position. A Ph.D. in physics, an ability for effective teaching, and excellence in research are required. Postdoctoral, faculty, or industrial experience with a record of external funding is desirable. While we prefer a theoretical/computational physicist in biomedical physics, we encourage both theorists and experimentalists to apply. We offer a Ph.D. program in medical physics, with strong research emphases in NMR imaging and spectroscopy, cell and molecular biology of neural injury, biomagnetism, and biomechanics. Applicants should submit curriculum vitae, publication list, description of research interests, and arrange for three letters of recommendation to be sent to: **Professor Uma Venkateswaran, Physics Department, Oakland University, Rochester, MI 48309** before November 10, 1997. *OU is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

**ASSISTANT PROFESSOR.** State-funded position immediately available for candidates interested in fibrin turnover and fibrinolysis in the pathogenesis of fibrotic lung and pleural injury and neoplasia. Will work as part of a productive team with funding from NIH, AHA, and endowment sources. Current investigation focuses on the post-transcriptional regulation of the urokinase receptor (uPAR) and receptor expression. Candidates should have a strong background with expertise in molecular biology and biochemistry. Interested candidates should send a curriculum vitae, description of research experience, and the names of three references including the addresses, telephone numbers, and FAX numbers of each reference. Send all inquiries to: **Steven Idell, M.D., Ph.D., Chairman, Specialty Care Services, The University of Texas Health Center at Tyler, P.O. Box 2003, Tyler, TX 75710**. FAX: 903-877-5627; Telephone: 903-877-7379; e-mail: [idell@uthct.edu](mailto:idell@uthct.edu).

## POSITIONS OPEN

### WAYNE STATE UNIVERSITY SCHOOL OF MEDICINE RESEARCH ASSISTANT PROFESSOR

A Ph.D. cell biologist/molecular biologist is being sought to work in the laboratory of the Director of the Cancer Biology Division in the Department of Radiation Oncology. Qualified applicants should have at least five years of postdoctoral research experience in areas related to receptor signal transduction and lipid biochemistry, in particular eicosanoids. The applicant must be well versed in methodologies that include expression of cell surface receptors, G protein coupling, phosphorylation, and other intracellular signaling events. The applicant should also possess molecular biological skills including, but not limited to, site-directed mutagenesis, cloning, subcellular fractionation, intercellular trafficking, and yeast two hybrid system. Preference will be given to candidates with demonstrated research ability based upon prior publication record and to applicants having strong written communication skills. Minimum salary \$50,000 dependent upon experience. Please send brief statement of research interests, capabilities, goals, curriculum vitae, and three letters of reference to: **Dr. Kenneth V. Honn, Professor, 431 Chemistry, Wayne State University, Detroit, MI 48202**. E-mail: [khonn@cms.cc.wayne.edu](mailto:khonn@cms.cc.wayne.edu). *Wayne State University is an Equal Opportunity/Affirmative Action Employer. All Buildings, structures, and vehicles at Wayne State University are smoke-free. Wayne State University—People working together to provide quality service.*

### DEPAUW UNIVERSITY BIOLOGICAL SCIENCES

The Department of Biological Sciences seeks to fill two one-semester term positions at the **INSTRUCTOR/ASSISTANT PROFESSOR** level. Both positions will begin on January 15, 1998. One full-time sabbatical replacement will be expected to teach two courses (with laboratory) in two of the following areas: comparative anatomy, development, cell biology, immunology, neurobiology, or animal behavior. We also seek a part-time replacement to teach one of the courses listed above. Preference will be given to candidates who have completed the Ph.D. and have teaching experience with undergraduates. Please submit curriculum vitae, statements of teaching and research interests, undergraduate and graduate transcripts, and three letters of recommendation to: **Search Committee, Department of Biological Sciences, DePauw University, Greencastle, IN 46135** by August 20, 1997. *DePauw University is an Affirmative Action, Equal Opportunity Employer. Women and minorities are encouraged to apply.*

**ASSISTANT/ASSOCIATE PROFESSOR.** The Department of Anatomy and Cell Biology is accepting applications for a tenure-track position beginning January 1998. Applicants should have a Ph.D., M.D., or equivalent degree, with sufficient teaching experience to direct and participate in neuroscience/neuroanatomy courses for professional students and to contribute to an Interdisciplinary Graduate Program. Applicants must have extramural support for research, preferably in cellular/developmental neuroscience. A curriculum vitae, statements of current and future research plans, and names of three references should be submitted to: **Dr. Roberta Pentney, Professor and Interim Chairperson, Department of Anatomy and Cell Biology, School of Medicine and Biomedical Sciences, 317 Farber Hall, State University of New York, Buffalo, NY 14214-3000**. For additional information, check our website: <http://wings.buffalo.edu/smbs/acb>. Interviews with selected applicants will commence September 15, 1997.

*SUNY is an Affirmative Action/Equal Opportunity Employer and we seek applications from women and minorities.*

### FORMULATION PROCESS ENGINEER

Ecogen Inc., an agricultural biotechnology company located in Langhorne, PA, is seeking a formulation specialist/physical chemist capable of working with microbial pesticides both in design of new formulations and in the implementation of formulation process engineering during the manufacturing of products. Successful candidates should have demonstrated communication and team work skills, minimum of a B.A./B.S. degree, and either a graduate with experience in physical chemistry and process engineering or three to five years of experience in these disciplines. Competitive salary and benefits. Please submit letter of interest and résumé with three references and salary history to: **Ecogen Inc., H.R. Department 97-19, P.O. Box 3023, Langhorne, PA 19047-3023**. FAX: 215-757-4156. *Equal Opportunity Employer.*

## POSITIONS OPEN

### ENVIRONMENTAL SCIENCE SOUTHWEST STATE UNIVERSITY MARSHALL, MINNESOTA

Southwest State University invites applications to fill a tenure-track position as **ASSISTANT/ASSOCIATE PROFESSOR** of Environmental Science beginning January 1998 (preferred), or no later than August 18, 1998. The faculty member will have expertise in water resources management/hydrology and will teach environmental science, hydrology, limnology, 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/environmental issues in southwest Minnesota. Application file review begins September 8, 1997, and continues until the position is filled. Send letter of application, résumé, transcripts, and name, address, and phone number of three references to: **Personnel Services, Southwest State University, 1501 State Street, Marshall, MN 56258**. E-mail: [507dka@rickyvs.southwest.msus.edu](mailto: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.*

**RESEARCH ASSISTANT I** for University in Ohio. Developing a mutagen assay system in an adenosine pyrophosphate ribosyl transferase deficiency transgenic mouse; tracing migration of primitive hematopoietic stem cells in transgenic mice; performing duties using working knowledge and skills, which include molecular biology, DNA/RNA isolation, molecular cloning techniques, plasmid manipulation, mutagenesis, PCR, gel electrophoresis, gene assays, mammalian cell culture, transgenic mice husbandry, tissue sectioning, and autoradiography. Mice bone marrow transplant, stain cells with antibody, sort cells with flow cytometry (FACS), cells extraction, and enzyme assay. B.S. in medicine or biology (foreign degree equivalency determined by U.S. agency), two years of experience in job described or in related medical research. 40 hours per week, 8AM to 5PM, Monday through Friday. \$23,000 per year. Send two résumés and cover letter (no calls) to: **ES SP PGMS, REF#2837D, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216**.

The Department of Dermatology at the College of Physicians and Surgeons of Columbia University is seeking an **ASSOCIATE RESEARCH SCIENTIST** to study the molecular genetics of Cowden's syndrome, an autosomal dominant disorder with benign skin lesions and an increased risk of breast cancer. Applicants should be board-eligible or board-certified in dermatology with specific experience with cutaneous genodermatoses, dermatopathology, and molecular biology. Molecular skills should include the use of polymerase chain reaction, mutation detection, DNA sequence analysis, and DNA cloning. A background in clinical investigative dermatology and investigative dermatopathology would be a significant asset. Interested individuals should send their curriculum vitae and three letters of recommendation to: **Monica Peacock, M.D., Department of Dermatology, Columbia University, VC-15-526, 630 West 168th Street, New York, NY 10032**. The University is particularly interested in qualified minority and women applicants. *An Affirmative Action/Equal Opportunity Employer.*

### POSITIONS AVAILABLE

Immediate openings for well-qualified young scientists to investigate the basic mechanisms by which relative oxygen species modify surfactant function, or ion transport across ATI cells. Candidates must have strong background, as evidenced by their Ph.D. dissertation or publications in peer-reviewed journals, in the appropriate areas of research. Depending on experience and qualifications, the successful candidates may be appointed either at the Research Associate or Research Assistant Professor level. *Permanent residents or citizens of the U.S. will be given preference; however, all qualified candidates will be considered.* Applicants should send a curriculum vitae to: **Dr. Sadis Matalon, Department of Anesthesiology, University of Alabama at Birmingham, 619 South 19th Street, TH 940, Birmingham, AL 35233**. FAX: 205-934-7437; e-mail: [sadis.matalon@ccc.uab.edu](mailto:sadis.matalon@ccc.uab.edu).



## POSTDOCTORAL RESEARCH FELLOW

An NIH-supported position is available for an enthusiastic outstanding candidate to investigate the role of fusion proteins in pediatric cancers. The research will involve the application of adenoviral vectors containing ribozymes to specifically modulate expression of chimeric proteins in tumor cells. Applicants should have a recent Ph.D. degree and have published in the area of viral gene delivery or molecular biology. Please send a c.v. including research interests, and the names of three individuals who can be contacted for letters of recommendation to:

Dr. Philip M. Potter  
Department of Molecular Pharmacology  
St. Jude Children's Research Hospital  
332 N. Lauderdale  
Memphis, TN 38105  
E-mail: phil.potter@stjude.org

Equal Employment Opportunity/Affirmative Action Employer/  
Smoke-free Environment

## TENURE-TRACK POSITION IN THE BIOPHYSICAL SCIENCES AT THE NATIONAL INSTITUTES OF HEALTH BETHESDA, MARYLAND

A tenure track position is available for a biophysical scientist to establish an independent research program in the Laboratory of Chemical Physics, NIDDK, NIH. Research in this Laboratory is primarily concerned with problems in the structure, dynamics, and function of biological macromolecules. A variety of state-of-the-art techniques are currently employed in these investigations, including multi-dimensional nuclear magnetic resonance spectroscopy, Raman and infrared imaging spectroscopies, and time-resolved optical spectroscopy with nanosecond and picosecond lasers. There is also a major effort in theoretical studies to complement the experimental work, using both analytical and computational methods.

The Laboratory is located on the main intramural campus of the NIH in Bethesda, Maryland, just outside Washington, D.C. The Senior Scientists in the Laboratory are: Ad Bax, G. Marius Clore, William A. Eaton, Angela M. Gronenborn, William A. Hagins, James Hofrichter, Ira W. Levin, Attila Szabo, Robert Tycko and Robert W. Zwanzig.

Interested applicants should send a Curriculum Vitae and list of publications, copies of major publications, a summary of research accomplishments, a plan for future research, and three letters of reference to: **David R. Davies, Chairman, Search Committee, Laboratory of Chemical Physics, Building 5, Room B1-26, National Institutes of Health, Bethesda, MD 20892-0510. Deadline for receipt of applications is September 15, 1997. NIH is an Equal Opportunity Employer.**



## TENURE TRACK ASSISTANT PROFESSOR Developmental Biologist

The Department of Molecular Biology and Pharmacology at Washington University School of Medicine is recruiting individuals at the level of Assistant Professor on the tenure track. We are seeking an outstanding scientist working in the area of developmental biology. Special emphasis will be given to research involving systems where genetic tools can be used to address fundamental questions dealing with development. Faculty in the Department of Molecular Biology and Pharmacology utilize a broad range of organisms including yeast, *C. elegans*, *Drosophila*, and mice to investigate cell fate specification, pattern formation, and the regulation of cell proliferation, differentiation, migration, and death. (Visit our web site at <http://pharmdec.wustl.edu>.)

Interested applicants should forward a curriculum vitae and a short summary of research plans to:

Search Committee (c/o Jeffrey I. Gordon, Head)  
Department of Molecular Biology and Pharmacology  
Washington University School of Medicine  
660 South Euclid Avenue, Box 8103  
St. Louis, Missouri 63110

Applicants should also arrange to have three letters of recommendation sent to the same address.

*Washington University is an Affirmative Action/Equal Opportunity Employer committed to increasing the representation of women and minority groups on its faculty.*

Laboratory

## MANAGER LABORATORY SCIENCE

Antarctic Support Associates (ASA) is the principal research support contractor to the National Science Foundation (NSF) Office of Polar Programs (OPP), which funds research in Antarctica under the auspices of the United States Antarctic Program (USAP). ASA has reopened the search for a highly-motivated person to manage the USAP laboratories and observatories in Antarctica and aboard research vessel icebreakers. This includes a scientific diving program and cryogenic and analytical chemistry support.

The Manager leads a diverse, technically-skilled team of up to 30 professionals in providing expert customer service annually to more than 100 Antarctic research projects.

Qualifications and experience must include the following:

- M.S. (or higher) degree in a natural science or the equivalent career experience
- 5-8 years' experience in laboratory management in accordance with the OSHA Laboratory Standard
- Supervision of staff in support of research
- Demonstrated skills in allocating limited resources
- Familiarity with developing and managing financial plans
- Proficiency with word processing, databases, spreadsheets, and electronic mail

Experience in conducting polar research is desirable. While the successful candidate will possess these qualifications, he or she will also demonstrate, through experience, a passion for scientific research and strong interpersonal and leadership skills in a demanding, fast-paced environment.

Proof of U.S. citizenship is required. The ability to pass stringent physical and dental exams prior to traveling to Antarctica is a contractual precondition of employment. This is a full-time position involving a 4-5 months of travel per year.

We offer a competitive salary/benefits package. For consideration, please fax/mail your resume by 8 August 1997 to:

**Antarctic Support Associates  
Response Code ZJ/CS  
61 Inverness Drive East, Suite 300  
Englewood, CO 80112  
Fax: 303/790-9130**



EOE

## POSITIONS OPEN

### MOLECULAR GENETICIST Director of the Center for Molecular Mechanisms of Disease Research

Children's Research Institute (CRI) is a free-standing research institute in Children's National Medical Center, a major academic pediatric medical center affiliated with George Washington University, Washington, D.C. CRI has basic and clinical investigators active in six research centers including molecular virology, cancer cell biology, molecular mechanisms of diseases, applied physiology, neuroscience, and outcomes research. CRI facilities exceed 75,000 square feet, and include well-equipped general research laboratories as well as specialty laboratories such as a stem cell processing facility, a BSL-3 facility, an accredited animal research facility, and facilities for clinical research trials.

CRI invites applications for the position of Director of the Center for Molecular Mechanisms of Disease Research and the recently endowed A. James Clark Chair in molecular genetics. We seek an experienced investigator of human molecular genetics, either in pediatric diseases, differentiation and development, or gene regulation/expression. The successful candidate will be a Ph.D. and/or M.D.; have demonstrated research expertise with a history of high quality, funded research program(s); have the ability to establish a molecular genetics research program with relevance to pediatric diseases; and possess the leadership skills necessary to further develop the Center for Molecular Mechanisms of Diseases and contribute to the Institute's broader goals and collaborations.

The position provides faculty tenure-track in the Department of Pediatrics, George Washington University, at the rank of Associate or Full Professor. A joint appointment in a basic science department at George Washington University Medical School and/or in a CNMC clinical department is anticipated. The position offers a competitive salary and attractive laboratory support. Applicants should send a letter of application, curriculum vitae, one- to three-page summary of current and future research goals and plans to: **Gordon B. Avery, M.D., Ph.D., Chair, Department of Pediatrics, Chief Academic Officer and COO, Children's Research Institute, CNMC, 111 Michigan Avenue N.W., Washington, DC 20010.** Questions regarding the position should be directed to: **Charles Finney, Administrative Director, CRI; Telephone: 202-884-5652; e-mail: cfinney@cnmc.org.** Drug testing/background investigation conducted.

### ENTOMOLOGIST FOR BIOLOGICAL CONTROL OF WEEDS

The U.S. Department of Agriculture, Agricultural Research Service, Pest Management and Agricultural Systems Research Unit located in Sidney, Montana, is seeking a Research Entomologist, GS-11/12/13 (\$37,507 to 69,492 per annum, salary commensurate with experience) to conduct research on ecological methods of exotic weed management. The scientist will serve as a member of a team conducting research to obtain knowledge about the biology and cultural management of exotic weeds infesting range and crops on the northern Great Plains. A Ph.D. in entomology is highly desirable; however, all applicants for this position must have a degree with at least 16 semester hours in entomology and one year of specialized experience that has provided the knowledge, skills, and abilities to develop, conduct, and document a scientific research project concerning biological control. *This is a competitive, permanent appointment and U.S. citizenship is required.* For information concerning the position, contact the Research Leader, Northern Plains Agricultural Research Laboratory at: **Telephone: 406-482-2020.** For application procedures/forms please contact **Charlotte Anderson, Administrative Officer, at: USDA/ARS/HRD/WOB, 6305 Ivy Lane, Suite 200, Greenbelt, MD 20770-1435. Telephone: 406-482-9432; e-mail: canderso@sidney.ars.usda.gov; FAX: 406-482-9450.** Application must be postmarked by August 18, 1997. *ARS is an Equal Opportunity Employer.*

The University of Virginia Department of Medicine and the Division of Nephrology is seeking an individual with a Ph.D. or equivalent for full-time research related to renal diseases. Individuals with molecular biology, protein chemistry, and cell biology experience preferred. Competitive salary, start-up package, and space available. Ability to establish and operate an externally funded research program expected. **W. K. Bolton, M.D., University of Virginia HSC, Box 133, Charlottesville, VA 22908. Equal Employment Opportunity/Affirmative Action.**

## POSITIONS OPEN



Agricultural  
Research  
Service  
United States  
Department of  
Agriculture

The United States Department of Agriculture (USDA), Agricultural Research Services (ARS), Beltsville Human Nutrition Research Center (BHNRC), Diet and Human Performance Laboratory, is accepting applications for a permanent, full-time **NUTRITION-IST, RESEARCH PHYSIOLOGIST**, or related discipline. The objective of this position will be to identify foods and patterns of dietary intake that are optimal for maintaining or improving health. The scientist must be qualified by training and experience to use both clinical nutrition investigation procedures and experimental procedures using animal models of human diseases and metabolism to investigate problems in human nutrition in one or more of the following areas: diet, energy metabolism, body composition, and obesity; diet and lipid metabolism related to cardiovascular disease; diet, nutrient intake, and cancer risk. Experience in design and conduct of both clinical nutrition studies and experimental nutrition studies in one or more of the above areas is essential. Candidates must have strong working knowledge of human and comparative nutrition, physiology, biochemistry, intermediary metabolism and kinetics, mathematics, statistics, and experimental design. A Ph.D. in nutrition, physiology, or related discipline is desired. *Applicants must be U.S. citizens.* Salary range is \$45,939 to \$71,017. For a copy of Announcement Number ARS-D7B-0164 and an application package, please call: **USDA, ARS, Human Resources Division, Telephone: 301-344-4638.** Specific questions regarding the position may be directed to: **Dr. Joseph Judd, Telephone: 301-504-9014.** The closing date for this announcement is September 2, 1997. *USDA, ARS is an Equal Opportunity/Affirmative Action Employer.*

### DISTINGUISHED RESEARCHER IN RESIDENCE Mountain Research Center Montana State University, Bozeman

One- to three-month fellowship for an internationally recognized scholar to conduct research bearing on any aspect of the MRC's mission: to develop, synthesize, and disseminate knowledge on the natural and interrelated cultural factors influencing the future of montane ecosystems. Responsibilities include research encompassed within at least one of the MRC Affinity Groups (Biosystematics, Ecological Processes, Physical Processes, Cultural Processes, or Geographic Information Analysis) and interacting with students and faculty. Full/Associate Professors on sabbatical encouraged to apply. Stipend up to \$5,000 per month for three months, plus relocation and housing allowance. Now accepting applications for fall 1998 or spring 1999. Submit curriculum vitae, letter explaining relevant research, and contact information for three references to: **Distinguished Researcher Committee, Mountain Research Center, P.O. Box 173490, Montana State University, Bozeman, MT 59717-3490. Website: <http://www.mrc.montana.edu>** for detailed job listing. Screening begins September 1, 1997 and continues until candidate is chosen. *ADA/Equal Opportunity/Affirmative Action/Veterans Preference.*

### PLANT DEVELOPMENTAL-GENETIC CELL BIOLOGY

Applications are invited for an **INDEPENDENT JUNIOR RESEARCH POSITION** (five-year position equivalent to C3 Professor, including staff) funded at the University of Tübingen by the program "Nachwuchsgruppen an Universitäten" of the Volkswagen-Stiftung. The successful candidate will have an excellent track record in *Arabidopsis* developmental genetics to establish a vigorous research program in molecular cell biology. Preference will be given to research involving a broad range of experimental approaches. Interactions with the existing plant research groups (molecular transport physiology, stress tolerance, pattern formation, cytokinesis) and participation in the local research program (SFB) "Mechanisms of Cell Behavior in Eukaryotes" are particularly encouraged. Address application (deadline: 30 September 1997), including curriculum vitae, list of publications, brief description of current research, and outline of five-year research plan, to: **Gerd Jürgens, Entwicklungs-genetik, Universität Tübingen, Spemannstr. 37-39, D-72076 Tübingen, Germany. E-mail: [geju@mpib-tuebingen.mpg.de](mailto:geju@mpib-tuebingen.mpg.de).**

## POSITIONS OPEN

**ASSOCIATE DIRECTOR FOR INFORMATION MANAGEMENT.** The Department of Biology at The University of New Mexico is seeking applicants who are interested in building a program of research and support for the development of the Long Term Ecological Research (LTER) Network Information System. This position is for a non-tenure-track full-time Research Assistant Professor to begin September 15, 1997. Minimum requirements: Ph.D. or M.S. plus equivalent work experience in computer science, ecology, or related scientific discipline; five years of experience managing research data and computer systems and networking computers and databases; strong communication skills; and a broad scientific and technical background. Preferred characteristics: demonstrated ability to generate successful proposals. The successful applicant will be expected to develop proposals for the continued support and advancement of the LTER Network Information System and will be responsible for supporting research communication, data analysis, and electronic publishing. Send a letter of application, curriculum vitae, representative reprints, statements of research interests, and at least three letters of reference to:

**Chair, LTER Associate Director for  
Information Management Search Committee  
Department of Biology  
The University of New Mexico  
Albuquerque, New Mexico 87131-1091  
Telephone: 505-277-3411; FAX: 505-277-0304**

Complete applications must be received by August 24, 1997.

*UNM is an Equal Opportunity/Affirmative Action Employer and Educator.*

### DIRECTOR OF PROTEIN SERVICES

The Biotechnology Center at the University of Illinois Urbana-Champaign invites applications for a Director of Protein Services. The applicant must have extensive knowledge of protein chemistry and is expected to assist faculty with their research projects. The major duties associated with this position include protein and peptide sequencing, peptide synthesis and purification, amino acid composition analysis, and mass spectrophotometric analysis. Applicant must be knowledgeable with protein and DNA database searches and must have good computer skills. The applicant must be able to operate, troubleshoot, and enhance facility equipment. Duties include training and supervision of technical personnel and management of the facility budget. Excellent communication skills are necessary. Qualifications include a minimum of a Master's degree in biology, biochemistry, or related natural sciences with significant experience in bioanalytical method development and protein chemistry. In order to ensure full consideration, applications must be received by Thursday, August 7, 1997. Send résumé and three letters of recommendation to:

**Protein Search # 5596  
c/o Thomas Bedwell  
University of Illinois  
Biotechnology Center  
901 South Mathews Avenue  
Urbana, IL 61801  
Telephone: 217-333-7684.**

*The University of Illinois is an Affirmative Action/Equal Opportunity Employer. Minorities, women, and other designated class members are encouraged to apply.*

### OPPORTUNITY FOR YEAST GENETICIST

Staff Scientist position for a Yeast Molecular Geneticist with postdoctoral experience at the NCI Field Station for anticancer drug discovery at the Fred Hutchinson Cancer Research Center available immediately. In association with our yeast high-throughput screening team, we are seeking a motivated individual to study novel mechanisms of toxicity in yeast and support the construction and verification of our yeast damage response mutant collection. This exciting position will allow interactions with other members at the Seattle Project, codirected by **Leland Hartwell** and **Stephen Friend** along with collaborations with other scientists at the Fred Hutchinson Cancer Research Center.

Please send curriculum vitae, three letters of recommendation, a description of current research, and long term interests by September 15, 1997, to:

**Stephen H. Friend, M.D., Ph.D.  
Director of Molecular Pharmacology  
Fred Hutchinson Cancer Research Center  
1124 Columbia Street, M477  
Seattle, Washington 98104**





St. Jude Children's  
Research Hospital  
ALSAC - Danny Thomas, Founder

## Postdoctoral Position Bacterial Metabolism and Genetics

A postdoctoral position is available in the laboratory of Dr. Charles Rock to investigate the molecular biology and biochemistry of fatty acid and phospholipid synthesis in bacteria. Areas currently under investigation include transcriptional regulation, identification of protein-protein interactions, 3-dimensional structure determination and drug discovery. Applicants should have a recent Ph.D. degree, and a strong background and interest in cell and molecular biology. Please send a curriculum vitae, a brief statement of research interests, and the names of three individuals who can be contacted for letters of recommendation to: Dr. Charles O. Rock, Biochemistry Department, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105. E-mail: [charles.rock@stjude.org](mailto:charles.rock@stjude.org) Equal Opportunity/Affirmative Action Employer.

## NUTRITIONIST/MEDICAL OFFICER GS-630/602 - 13/14

NATIONAL INSTITUTES OF HEALTH  
Opening Date: May 26, 1997

OFFICE OF DIETARY SUPPLEMENTS  
Closing Date: September 2, 1997

This position is located in the Office of Dietary Supplements (ODS), Office of the Director, NIH. The incumbent participates with the Director, ODS and other senior staff in developing and implementing a strategic plan through organizing workshops and conferences on topics of national interest in dietary supplements. Responsibilities include coordinating with staff in establishing action assignments, tracking progress, establishing priorities, and conducts scientific reviews to identify gaps in scientific knowledge, initiating and coordinating efforts among ICDs and other Federal Agencies. The incumbent designs, conducts and reviews research on dietary supplements and works with a variety of professional societies, academia, public interest groups and private industry in order to develop guidelines and various scientific activities.

The ideal candidate has a demonstrated research background, a Ph.D. in nutrition or food science or a M.D. or Ph.D. and comparable training in one of the biological, physiological or biomedical sciences. **All applicants are encouraged to address the following Knowledge, Skills and Abilities (KSAs). The full Announcement Number OD-97-1107 can be obtained from NIH.**

1. Knowledge of scientific areas related to research on the role of dietary supplements in improving health care, including genetics, exercise physiology, and/or cancer biology.
2. Knowledge of research design such as clinical trials, epidemiology, survey methodology, or meta-analysis.
3. Knowledge of national and international issues and policies as well as scientific activities related to research about dietary supplements and their use in health care issues.
4. Ability to plan, develop, implement and evaluate a comprehensive scientific program including the formulation of program objective, goals and initiatives.
5. Ability to communicate clearly both orally and in writing about scientific issues and to establish and maintain effective collaborative relationships with other scientists.

**In addition to meeting the basic qualification requirements, including any selective factors, surplus/displaced employees must meet the mid-level of the crediting plan or established cut off score.**

This is a civil service position with a salary commensurate with experience. Please send a curriculum vitae, resume or an Optional Application for Federal Employment, OF-612, to the National Institutes of Health, OD/OE, Building 31, Room 1C27, 31 Center Drive MSC 2264, Bethesda, MD 20892-2264, Attn: Mr. Rob Irvin at 301-402-5027. U.S. citizenship is required. **APPLICATIONS MUST BE POSTMARKED BY SEPTEMBER 2, 1997.** NIH is an Equal Opportunity Employer.



## HARVARD MEDICAL SCHOOL

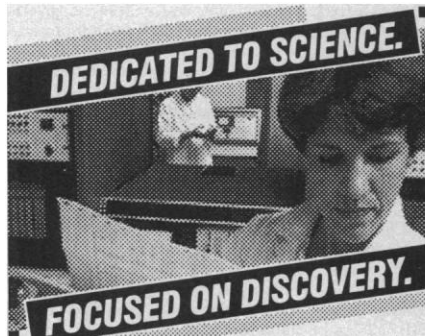
### MASSACHUSETTS GENERAL HOSPITAL

#### Immunobiology Laboratory at the Massachusetts General Hospital

Monoclonal Antibody Production and Biochemical Characterization. M.S., B.S., or Ph.D. required. Candidate most importantly must have track record in monoclonal antibody production and characterization on biochemical or immunologic level. Position has benefit of learning flow cytometry techniques on a state-of-the-art flow cytometer. Possibility for advancement as lab manager.

Applicants should send a CV, brief statement of research interests, and have at least two letters of recommendation sent to:

**Director/Immunobiology Laboratory  
Massachusetts General Hospital-East  
Building 149, 13th Street, CNY-3601  
Charlestown, MA 02129**



Join our distinguished scientific staff and enjoy making a difference in the future of pharmaceutical research at Parke-Davis. Located in Ann Arbor, MI, Parke-Davis offers both optimum living and working environments.

### ASSOCIATE SCIENTIST/VASCULAR AND CARDIAC DISEASES

Specialists with small animal surgery skills are needed for our heart failure program. Primary responsibilities will include computer based assessment of cardiovascular function, generating rodent heart failure models (e.g., coronary artery ligation), running drug efficacy and dose-response studies, and maintaining rodent colonies.

A M.S. with 2+ years of experience or a B.S. with 4+ years of experience is required. In addition, a demonstrated ability to use a word processor, spreadsheet and statistical package as well as write protocols and data summaries is essential. The ideal candidate will have proven work experience in cell culture and Western blots, cardiovascular physiology and

myocardial ischemia. The candidate must possess strong communication skills and self-initiative. **Job Code RJB-97230**

### ASSOCIATE/SENIOR ASSOCIATE SCIENTIST IMMUNOPATHOLOGY/THERAPEUTICS

You will participate in in vitro cell-based assays using human blood leukocytes and cell lines. You will also obtain extracts or supernatants from cultured cells and analyze for a variety of products such as cytokines and leukotrienes using ELISA, RIA or Western blot technology. The ability to develop and characterize new assays is required.

A M.S. in a biomedical discipline along with 2 years of relevant experience or a B.S. with 5+ years of experience in the performance of a variety of cell-based assays; experience in tissue culture and the isolation of various types of leukocytes including monocytes, lymphocytes and neutrophils from human and animal blood; and knowledge in standard Western blotting protocols are required. **Job Code RJB-97234**

For consideration, mail, fax or e-mail resume\* and cover letter, indicating the **Job Code** of interest, to: **Parke-Davis Pharmaceutical Research, Human Resources Department, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: (313) 998-3394. E-mail: [resume@aa.wl.com](mailto:resume@aa.wl.com)**

\*Submit resume on laser-quality white paper, with legible 10 point or larger type, and avoid boldface, italics, borders, etc.

Equal opportunity in action. Smoke-Free work environment.



## POSITIONS OPEN

**BIostatistician** to join Washington State University Health Research and Education Center in Spokane, Washington. Responsibilities: consultation with physicians and scientists on design, implementation, and analysis of biomedical studies; support ongoing programs in cardiovascular disease, nephrology, cancer, reproductive physiology, and clinical outcomes research; teach one course per semester. Requirements: Ph.D. or equivalent degree in statistics, biostatistics, or behavioral/health sciences, or a closely related field, with a strong emphasis in biostatistics; experience in research design in the health sciences, data management, statistical analysis, interpretation and reporting of research results, biomedical statistical consultation, investigator-initiated research, and grant/manuscript preparation. Demonstrated experience in teaching courses in statistical methods; competence in standard personal computer environments and experience using major statistical packages and relational database programs. Interpersonal, written, and oral communication skills and the ability to interact effectively with research investigators, medical and university personnel, students, and faculty. Desired qualities: demonstrated success collaborating with health science professionals; knowledge and experience applying statistical methods in life sciences; general knowledge of life sciences; demonstrated ability and desire to perform independent statistics research; evidence of scholarly contributions. This is a joint tenure-track appointment with the Program in Statistics at the assistant or associate level with rank and salary depending on qualifications. Request complete description and application requirements from: **Dr. Robert Short, Chair, Biostatistician Search Committee, WSU Spokane, 601 West First Avenue, Spokane, WA 99201-3899. E-mail: rshort@wsu.edu.** Application deadline October 1, 1997. *Equal Opportunity/Affirmative Action Employer and Employer. Protected groups members are encouraged to apply.*

## BIOLOGICAL CONTROL OF INSECTS ENTOMOLOGIST

The U.S. Department of Agriculture, Agricultural Research Service, Pest Management and Agricultural Systems Research Unit located in Sidney, Montana is seeking a **RESEARCH ENTOMOLOGIST**, GS-11/12/13 (\$37,507 to \$69,492 per annum, salary commensurate with experience) to conduct research on ecological methods of insect pest management. The scientist will serve as a member of a team conducting research to obtain knowledge about the biology and cultural management of insect pests that attack northern Great Plains agricultural crops. A Ph.D. in entomology is highly desirable; however, all applicants for this position must have a degree with at least 16 semester hours in entomology and one year of specialized experience that has provided the knowledge, skills, and abilities to develop, conduct, and document a scientific research project concerning insect biological control. *This is a competitive, permanent appointment and U.S. citizenship is required.* For information concerning the position, contact: **Research Leader, Northern Plains Agricultural Research Laboratory, Telephone: 406-482-2020; e-mail: canderso@sidney.ars.usda.gov.** For application procedures/forms please contact: **Charlotte Anderson, Telephone 406-482-9432 or FAX: 406-482-9450. USDA/ARS/HRD/WOB, 6305 Ivy Lane, Room 220, Greenbelt, MD 20770-1435.** Application must be postmarked by August 4, 1997. *ARS is an Equal Opportunity Employer.*

## POSTDOCTORAL FELLOWSHIPS IN MOLECULAR PARASITOLOGY AND VECTOR BIOLOGY

The University of Georgia training program in "Molecular Cell Biology of Parasites and Vectors" has two postdoctoral openings. This NIH-sponsored program offers training in parasitology with emphasis in the areas of molecular biology, biochemistry, immunology, and cell biology of parasites and vectors. Mentors include 20 faculty participants from the University of Georgia and the National Centers for Disease Control and Prevention providing opportunities to study American and African trypanosomiasis, leishmaniasis, malaria, cryptosporidiosis, filariasis, schistosomiasis, cysticercosis, as well as vector biology. *Funding is restricted to U.S. citizens or permanent residents.* For specific information, visit our website: <http://www.uga.edu/~cellbio/parasitolTG/>. For consideration send a curriculum vitae and letter of interest to: **Molecular Parasitology Training Program, Department of Cellular Biology, University of Georgia, Athens, GA 30602-2607.** *The University of Georgia is an Equal Opportunity, Affirmative Action Employer.*

## POSITIONS OPEN

### STAFF SCIENTIST/PROTEIN CHEMIST

The Biomedical Services Division (BSD) of DynCorp is seeking outstanding candidates with demonstrated abilities in the field of protein chemistry and purification. Successful candidates should hold a doctoral degree in biochemistry, molecular biology, or biophysics and have completed at least two years of postdoctoral training in a biological discipline. The candidate is expected to develop new protein purification strategies, protein formulations, and analytical testing protocols for existing and future subunit protein vaccines; manage the present protein chemistry lab and staff; and supervise production of pre-clinical and clinical vaccine materials in accordance with cGMP guidelines. Proficiencies with Waters HPLC and Millenium software, mass spectroscopy, glycosylation analysis, and isoelectric focusing are requisite technical skills. Writing experience with SOPs, validation reports, grant and contract proposals, patents, INDs, and manuscripts is needed. BSD develops and produces experimental vaccines for pre-clinical and clinical testing as contract services with university, government, and biopharmaceutical companies.

DynCorp, an ESOP employee-owned company, offers competitive salaries, fringe benefits, and relocation packages. For confidential consideration, please submit curriculum vitae and three references with addresses to the following:

**Dr. R. A. Robinson**  
DynCorp  
Molecular Virology Laboratory  
1 Taft Court, Suite 200  
Rockville, MD 20850  
FAX: 301-738-1109  
E-mail: [robinson@erols.com](mailto:robinson@erols.com)

*An Equal Opportunity Employer.*

The U.S. Forest Service invites application for a permanent position (GS-13/14 level, salary range \$51,000 to \$60,000 plus a 25% cost of living adjustment) as **LEADER OF THE FOREST SERVICE COOPERATIVE UNIT** at the University of Alaska, Fairbanks. The successful applicant will serve as co-director of the Bonanza Creek Long-Term Ecological Research Program, an interdisciplinary research program in ecosystem and community ecology; will develop an independent research program in regional ecology; and will advise graduate students. The position requires a Ph.D. and demonstrated leadership in one or more of the fields of systems ecology, landscape ecology, disturbance ecology, community ecology, population ecology, theoretical ecology, or ecosystem ecology, preferably as these fields are applied at the regional scale. She/he will be an employee of USDA Forest Service and will be expected to meet the qualifications of an associate/full professor at the University of Alaska, Fairbanks. Please send curriculum vitae to: **ATTN: Cheryl Zerkel, USDA Forest Service, Personnel Office, 333 S.W. First Avenue, P.O. Box 3623, Portland, OR 97208-3623** by August 13, 1997. Upon receipt of your curriculum vitae, a complete application package will be sent to you. For information about the position, please contact **Hermann Gucinski at 541-750-7357** or on the Internet at: [gucinski@fsl.orst.edu](mailto:gucinski@fsl.orst.edu).

### RESEARCH POSTDOCTORAL FELLOWSHIP

Applications are invited for Postdoctoral Fellowships in the Section of Pulmonary and Critical Care Medicine of the Department of Internal Medicine at Yale University School of Medicine. Outstanding candidates with a Ph.D. or M.D. degree. Experience in molecular biology and cell biology is essential. Experience in cytokine biology, *in vivo* animal modeling, transgenic gene expression, and virology is highly desirable. The chosen candidate(s) will work in NIH-funded Specialized Center of Research on Asthma. Ongoing projects focus on molecular and cell biology of cytokines, viruses, and airway inflammation and repair. Please respond with curriculum vitae and three letters of recommendation to:

**Jack A. Elias, M.D.**  
Professor of Medicine  
Chief of Pulmonary and Critical Care Medicine  
Yale University School of Medicine  
Section of Pulmonary and Critical Care Medicine  
Department of Internal Medicine  
333 Cedar Street  
105 LCI

New Haven, CT 06520-8057  
Telephone: 203-785-4163; FAX: 203-785-3826  
*Yale University School of Medicine is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### GRASSHOPPER ENTOMOLOGIST

The U.S. Department of Agriculture, Agricultural Research Service, Pest Management and Agricultural Systems Research Unit located in Sidney, Montana is seeking a **Research Entomologist**, GS-11/12/13 (\$37,506 to \$69,492 per annum, salary commensurate with experience) to conduct research on the biology and control of grasshoppers in agroecosystems. The scientist will serve as a member of a team conducting research on the biological, chemical, and cultural tactics for suppression of grasshoppers on rangeland and food/forage crops in the northern Great Plains. Research objectives include: the characterization of the damage potential of grasshoppers under standard and novel tillage systems, the development of monitoring techniques that detect grasshopper movements between non-crop and crop areas, the development of efficient tactics that can suppress local sources of chronic infestations. A Ph.D. in entomology is highly desirable; however, all applicants for this position must have a degree with at least 16 semester hours in entomology and one year of specialized experience that has provided the knowledge, skills, and abilities to develop, conduct, and document a scientific research project concerning insect ecology. *This is a competitive, permanent appointment and U.S. citizenship is required.* For information concerning the position, contact: **Research Leader, Northern Plains Agricultural Research Laboratory, Telephone: 406-482-2020. E-mail: canderso@sidney.ars.usda.gov.** For application procedures/forms please contact: **Charlotte Anderson, Telephone: 406-482-9432; FAX: 406-482-9450. USDA/ARS/HRD/WOB, 6305 Ivy Lane, Greenbelt, MD 20770-1435.** Application must be postmarked by August 4, 1997. *ARS is an Equal Opportunity Employer.*

## MOLECULAR NEUROBIOLOGY AND RETROVIROLOGY POSITIONS.

**POSTDOCTORAL POSITION** available to investigate the genomic and transactivating factors involved in the brain-selective transcription of the  $\beta 1$ -adrenergic receptor gene. Doctorate required. Technical skill in immunocytochemistry, *in situ* hybridization, recombinant DNA, and neuroanatomy highly desired. **POSTDOCTORAL/RESEARCH ASSISTANT POSITION** available to investigate the genetic structure/diversity of the simian AIDS retroviruses. Doctorate or B.S./M.S. with advanced training required. Technical skills in cloning, sequencing, and computer analysis highly desired. Send curriculum vitae, research statement, and three references for either position to: **Dr. Curt Machida, Neuroscience, Oregon Regional Primate Research Center, 505 N.W. 185 Avenue, Beaverton, OR 97006. FAX: 503-690-5384.** *Equal Opportunity Employer/Affirmative Action.*

### RENAL PHYSIOLOGIST

Applications are invited for an appointment as a renal physiologist to lead a strong and distinguished research program in regulatory physiology in the Division of Intramural Research, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health. Candidates are sought with experience using modern molecular and cellular approaches, including functional studies in genetically modified animals, to understand intrarenal regulation of the circulation. Candidates should have a strong international reputation and record of a highly competitive and productive research program. Please send curriculum vitae and bibliography to: **Ms. Kay Place, Division of Intramural Research, NIDDK, Building 10, Room 9N222, 10 Center Drive, MSC 1818, National Institutes of Health, Bethesda, MD 20892-1818.** The closing date is August 28, 1997.

**POSTDOCTORAL POSITION** immediately available to study the cellular regulation of topoisomerases in tumor cells. Current studies are focused on delineating the role of calcium-calmodulin dependent processes in regulating phosphorylation events which affect DNA damage and lead to apoptosis. Applicants should have a Ph.D. in biochemistry, cell biology, or pharmacology. Salary is competitive and commensurate with experience. Submit curriculum vitae and names of three references to: **Dr. Ram Ganapathi, Cancer Center-M38, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, Ohio 44195.**

*Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*

CELL  
GENESYS

## ASSOCIATE SCIENTIST Hematopoietic Stem Cell Therapy

**A**s a leading research and development company, Cell Genesys is genetically engineering the human immune system to create innovative therapies for serious diseases. We are currently seeking an Associate Scientist to be responsible for managing and conducting bench research in the area of Hematopoietic Stem Cell Therapy.

As the selected candidate, you will report to the Director/Principal Scientist of the Department of Cell Therapy and support the goal of developing novel therapies for the treatment of infectious and malignant disease via genetic modification of hematopoietic cells. In addition to a PhD in a biology-related discipline, you will need at least 2 years' post-doctoral research experience in the area of hematopoiesis/stem cell biology and/or immunology. Experience in the development of *in vivo* animal models for investigating hematopoiesis and immune cell function is desirable.

We offer a competitive salary, excellent benefits and equity participation. For immediate consideration, send your resume with cover letter to: Human Resources, Cell Genesys, Inc., 322 Lakeside Dr., Foster City, CA 94404. We are an equal opportunity employer.



CELL GENESYS

## The Science of Agricultural Genetics

### SENIOR RESEARCH ASSOCIATE

Analysis Group - Protein Biochemistry (Job #AB-712)

The primary responsibility of this position is the application of immunoassays and other biochemical technologies to the analysis of transgenic plants. Responsibilities also include identifying and completing critical technology development projects for immunoassays and sample preparation methods as well as designing and conducting experiments, adapting, performing and troubleshooting assay procedures and managing and analyzing data. A M.S. degree plus 4 years experience or a B.S. degree plus 6 years experience in microbiology, biochemistry, immunology or molecular biology is required. Specialized skills in protein analysis/biochemistry including immunoassays and excellent interpersonal communication skills are essential. Familiarity with transgenic plant analysis, computers, and statistical analysis is important. Exposure to plant breeding and genetics is of value. Demonstrated ability to work with limited supervision and to effectively manage others is desired.

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 to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (Job #AB-712), P.O. Box 1004, Johnston, IA 50131-1004. Applications received by August 8, 1997 will be assured of consideration, however applications will be considered until the position is filled.

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.



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INTERNATIONAL, INC.

An Equal Opportunity  
Employer



Agricultural  
Research  
Service

### UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH SERVICE RESEARCH LEADER

(Interdisciplinary: Supervisory Research Entomologist/  
Supervisory Plant Pathologist)

The Office of International Research Programs, Agricultural Research Service, USDA, is seeking applications for the position of Research Leader (Interdisciplinary: Supervisory Research Entomologist/Supervisory Plant Pathologist) at the European Biological Control Laboratory (EBCL), Montpellier, France. The incumbent directs an interdisciplinary research team and conducts investigations on a worldwide basis to discover new natural enemies of major agricultural pests which have been accidentally introduced into North America. Research is conducted on the biology and ecology of natural enemies of agricultural pests to ensure their safe and efficient establishment in the U.S. and to provide new information on their biology to cooperating scientists. *Candidates must be U.S. citizens.* This appointment is a permanent position, with a tour of duty in France for a minimum of 2 years with subsequent assignment in the U.S.

Candidates must meet education and experience requirements. Please contact Human Resources Division listed below for specific requirements. Salary commensurate with experience (\$70,894 to \$92,161), plus housing and cost of living allowances in France. For information contact **Dr. Rick Bennett, 301-504-5605, FAX: 301-504-5298, or e-mail: hmp@ars.usda.gov.** For an application package with complete qualification requirements and instructions, contact the **Human Resources Division, 301-344-4638, or 301-344-2288,** and request vacancy announcement number ARS-D7B-0168, Interdisciplinary: Supervisory Research Entomologist/Supervisory Plant Pathologist, GS-414/434-15. Applications must be marked ARS-D7B-0168 and postmarked by September 2, 1997. Or you may contact the Federal Jobs Web Page at <http://www.usdajobs.opm.gov>.

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### INTERDISCIPLINARY, NATIONAL INSTITUTES OF HEALTH NATIONAL CANCER INSTITUTE FREDERICK CANCER RESEARCH AND DEVELOPMENT CENTER OFFICE OF THE DIRECTOR

The National Cancer Institute is looking for two highly motivated, innovative biomedical scientists who will work in the Office of the Associate Director of the National Cancer Institute, Frederick Cancer Research and Development Center (NCI-FCRDC) developing new programs which will aid in attaining the goals of the NCI. These two positions will work closely with the new Associate Director, NCI-FCRDC to examine the role that the Center plays as an integral component of the intramural and extramural functions of the NCI. It is planned that this NCI facility, composed of four commercial contractors plus approximately 350 intramural NCI scientists, will become an outstanding national center for AIDS and molecular biologic research and an advanced resource for biomedical technologic methodologies. Both positions will be involved with planning goals, allocation of resources, and networking with the Divisions of NCI and with other Institutes within the National Institutes of Health.

The positions are located at the NCI-FCRDC in Frederick, Maryland, which is 30 minutes north of the main NIH campus. These positions in the U.S. Government are GS-14/15 and have the academic equivalent rank of an assistant/associate professor. United States Citizenship is required. A doctoral degree (Ph.D. or M.D.) is essential but not required, and background in molecular biology, cell biology, genetics, biochemistry, etc., is also a requirement.

If interested, please call (301) 402-2789 for a copy of the recruiting bulletins #CA-97-1937/CA-97-1938. You will also be required to respond to questions concerning your knowledge, skills, and abilities as they relate to the job as stated on the recruiting bulletins.



The NIH is an equal  
opportunity employer  
and encourages all  
qualified women and  
minorities to apply.



## POSITIONS OPEN

### POSTDOCTORAL ASSOCIATE/ RESEARCH SCIENTIST

The Department of Surgery Research Laboratory has two immediate openings for postdoctoral research associates. Ph.D./M.D. required. Experience in techniques such as cell culture, detection of apoptosis, flow cytometry, immunoassays, and immunohistochemistry are desired. Experience with small animal models and a demonstrated ability to work independently are preferred. Salary commensurate with experience.

One position (Job #4711) is for the Islet Transplant Laboratory, which is listed with UNOS as a clinical islet transplant center and has an active research program in islet transplantation with particular interest in early engraftment phenomena. Emphasis is being placed on the role of heat shock proteins in islet engraftment and the immune and autoimmune responses following transplantation.

The second position (Job#4730) is in the new Burn Laboratory and will involve research in shock, sepsis, and the role of heat shock proteins in providing thermotolerance.

Send cover letter and résumé to: **Department G, Personnel Office (Indicate Job #), SUNY Health Science Center at Syracuse, 750 East Adams Street, Syracuse, NY 13210.** Please specify the position you are seeking.

*An Affirmative Action/Equal Employment Opportunity/ADA employer, committed to excellence through diversity.*

### MULTIDISCIPLINARY POSTDOCTORAL TRAINING

An established NSF Biology Research Training Group at Penn State University invites **POSTDOCTORAL** applications from *U.S. citizens and permanent residents*. Join 24 ecologists, plant physiologists, biochemists, and molecular biologists in a program designed to develop cross-disciplinary collaborative, research, and communication skills necessary for answering questions about how plants interact with their environments. Contact Jack Schultz at: [ujq@psu.edu](mailto:ujq@psu.edu) or Eva J. Pell at: [ejp@psu.edu](mailto:ejp@psu.edu) for details. Please send curriculum vitae and names, addresses, phone numbers, and e-mail addresses of three references to: **Jack C. Schultz—RTG, Pesticide Research Lab, Penn State University, University Park, Pennsylvania 16802** by September 1.

### POSTDOCTORAL FELLOW PATHOBIOLOGY UNIVERSITY OF CONNECTICUT

Postdoctoral position available immediately to study molecular mechanisms of pathogenesis of mycoplasmas. Proficiency in molecular biology and basic immunology required. Send curriculum vitae, summary of relevant experience, and the names of three references with complete addresses and Telephone and FAX numbers to: **Dr. Steven J. Geary, Department of Pathobiology, 61 North Eagleville Road, U-89, The University of Connecticut, Storrs, CT 06269-3089.** *We encourage applications from under-represented groups, including minorities, women, and people with disabilities.*

**POSTDOCTORAL POSITION** available immediately to study the molecular mechanisms by which growth-differentiation factors play a role in mammalian reproductive systems. Applicants should have a recent Ph.D. and a solid background in molecular biology. Send curriculum vitae and three references to: **Dr. Shunichi Shimasaki, Department of Reproductive Medicine, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0674. FAX: 619-534-4959.**

**POSTDOCTORAL POSITION** in global change biology to conduct meta-analysis of elevated CO<sub>2</sub> effects on terrestrial vegetation. Applicants should have research experience with CO<sub>2</sub> effects on plants and skills in statistics and database management. Please send curriculum vitae, statement of research interests, and the names and e-mail addresses of three references to: **Dr. Peter S. Curtis, Department of Plant Biology, The Ohio State University, 1735 Neil Avenue, Columbus, OH 43210-1293. E-mail: [curtis.7@osu.edu](mailto:curtis.7@osu.edu).**

**POSTDOCTORAL POSITION** available immediately to study formation of atypical protein kinase C signal complexes involved in nerve growth factor responses. Experience in molecular biology is desired. Send curriculum vitae, letter of interest, names and phone numbers of references to: **Dr. Marie Wooten, Department of Zoology, 331 Funchess Hall, Auburn University, AL 36849. E-mail: [mwooten@acesag.auburn.edu](mailto:mwooten@acesag.auburn.edu).**

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS IN EUKARYOTIC GENE REGULATION

Postdoctoral positions are available to study the regulation of gene expression in the immune system. Our studies focus on the molecular mechanisms of MHC class II gene expression, regulation of genes by TNF, and the role of the MHC in fetal-maternal tolerance. Candidates should have an immunology background and experience in molecular biology technology. Please send curriculum vitae, names of two or more references, and a short statement of research interests to:

**Jeremy M. Boss, Ph.D.  
Department of Microbiology  
and Immunology  
Emory University School of Medicine  
Atlanta, GA 30322**

### CENTER FOR INDOOR AIR RESEARCH POSTDOCTORAL FELLOWSHIP PROGRAM

The Center for Indoor Air Research (CIAR) is accepting applications for the CIAR Postdoctoral Fellowship Program. The purpose of this program is to further develop the scientific productivity of outstanding young men and women pursuing careers in indoor air research and to stimulate interest in entering the field of indoor air research among individuals with strong backgrounds in related or allied sciences. For details and application brochure, write or call: **Center for Indoor Air Research, 1099 Winterson Road, Suite 280, Linthicum, MD 21090. Telephone: 410-684-3777; FAX: 410-684-3729; e-mail: [ciarinc@aol.com](mailto:ciarinc@aol.com).** Deadline for receipt of application is October 31, 1997.

### POSTDOCTORAL POSITION/IMMUNOLOGY YALE UNIVERSITY SCHOOL OF MEDICINE

Ph.D. position to study T-B cell collaboration and  $\gamma\delta$  T-cell regulation in murine systemic autoimmunity and Fas deficiency (see *J. Exp. Med.* **184**:1149, 1996; *J. Immunol.* **157**:5225 and 5689, 1996). Experience and/or interest in T-cell cloning, co-stimulatory factors, apoptosis, and/or animal models of autoimmunity necessary. Send curriculum vitae, research interests, and three reference letters to: **Joe Craft, Professor of Medicine, Yale School of Medicine, P.O. Box 208031, New Haven, CT 06520-8031.** *Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL POSITION

The Institute of Physiology, University of Lausanne, has an opening for a postdoctoral fellow, metabolism research, to work as part of a multidisciplinary team and participate in research projects on metabolic disorders in human diseases (obesity/diabetes, liver diseases, etc.). Knowledge in enzymology and molecular biology techniques is required. Experience in cell fractionation/enzyme compartmentation would be appreciated.

Send curriculum vitae and names of two to three references to: **Luc Tappy, M.D., Institute of Physiology, 7 rue du Bugnon, CH-1004 Lausanne, Switzerland. E-mail: [luc.tappy@iphysiol.unil.ch](mailto:luc.tappy@iphysiol.unil.ch).**

**POSTDOCTORAL POSITION** is available immediately to study the regulation of matrix metalloproteinases. Applicants should have a strong background and experience in enzymology protein chemistry and protein purification. Research involves structure-function studies, enzyme kinetics, site-directed mutagenesis, and recombinant protein expression. Send curriculum vitae, list of publications, and names of three references to: **Dr. Rafael Fridman, Department of Pathology, Wayne State University, 540 East Canfield Avenue, Detroit, MI 48201.** *Equal Employment Opportunity Corporation/Affirmative Action.*

**POSTDOCTORAL POSITION** in the Division of Nutritional Sciences, Cornell University. Position will investigate regulation of molecular interactions of proteoglycans, lipolytic enzymes, and lipoprotein receptors. Cell culture, molecular biology, immunochemical techniques, surface plasmon resonance, and recombinant DNA techniques employed. Ph.D. required with training in biochemistry/molecular biology. Send résumé and three references to: **Dr. André Bensadoun, Division of Biological Sciences and Nutritional Biochemistry, 321 Savage Hall, Cornell University, Ithaca, NY 14853.** *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATE PROTEIN/PEPTIDE STRUCTURE DETERMINATION

Departments of Biochemistry/Chemistry and  
Microbiology  
Montana State University, Bozeman

A postdoctoral position is available October 1, 1997, to join an ongoing research project in structure-based drug design. The candidate will be responsible for protein/peptide structure determination using NMR approaches. He/she will be expected to contribute to the activities of the membrane protein structure group (a 12-member cross-disciplinary group at Montana State University and the University of California at Santa Cruz). The position is a non-tenure-track, full-time, 12-month appointment, paying \$28,000 per year. Funding is available for two years, with continuation beyond this time dependent on further availability of grant funds. A Ph.D. in biophysics or related field, documented experience with protein/peptide NMR assignment and molecular dynamics simulations, and a publication record in refereed journals are required. Preference will be given to candidates with experience in drug design and training junior personnel. Screening will begin September 1, 1997, and will continue until a suitable individual is found. Applicants should provide: a letter of application documenting relevant experience and qualifications, a formal résumé, and three letters from professional references supporting the candidate's application, to: **Dr. Jean R. Starkey, Department of Microbiology, Montana State University, Bozeman, MT 59717, U.S.A. Telephone: 406-994-3962; FAX: 406-994-4926; e-mail: [starkey@oxygen.chemistry.montana.edu](mailto:starkey@oxygen.chemistry.montana.edu).** *ADA/Equal Opportunity/Affirmative Action/Veterans Preference.*

### STAFF ASSOCIATE OR POSTDOCTORAL RESEARCH SCIENTIST MOLECULAR AND CELLULAR IMMUNOLOGY

A position is available immediately in a laboratory of the Department of Neurology, CPMC, investigating autoimmune mechanisms of neurological diseases. Experience with monoclonal antibodies and the molecular biology of immunoglobulin genes desired. Salary commensurate with experience. Send cover letter, curriculum vitae, and names of three references to: **Norman Latov, M.D., Ph.D., Professor of Neurology, The Neurological Institute, Columbia-Presbyterian Medical Center, 710 West 168th Street, New York, NY 10032. FAX: 212-305-3986; e-mail: [nl2@columbia.edu](mailto:nl2@columbia.edu).** *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITIONS** available immediately in spinal cord regeneration research. Major laboratory interests include: neurotrophic support of regrowth, neural transplantation, guidance molecules in development and regeneration, and retrograde cell death. Experience in basic cellular and molecular techniques, and small animal surgery is desirable. *Applicants must be U.S. citizens or permanent residents.* Interested applicants should send their curriculum vitae, a brief description of research interests, and the names of three references to: **Dr. Barbara S. Bregman, Department of Cell Biology, Georgetown University School of Medicine, 3900 Reservoir Road N.W., Washington, DC 20007.** *An Equal Opportunity Employer.*

Anticipated: **POSTDOCTORAL RESEARCHER** to conduct studies examining role of biotransformation and bioavailability in the trophic transfer of dietary carcinogens in aquatic organisms. Qualification: Ph.D. with toxicology, biology, or chemistry background. Experience with either xenobiotic biotransformation, immunohistochemistry, HPLC, and/or fish surgery desirable. Send curriculum vitae and letters of application/reference to: **Dr. Kevin Kleinow, Department of Veterinary Pharmacology, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803. Telephone: 503-346-3202.** September 20th or until filled. *LSU is an Equal Opportunity Employer.*

### POSTDOCTORAL/SABBATICAL POSITION

Postdoctoral or sabbatical position available immediately at major Chemical Research Institute in Israel. Qualifications required: Experience in peptide synthesis and purification, use of automated synthesizers.

Excellent conditions for suitable candidates. Inquiries: **E-mail: [dvoraa@netvision.net.il](mailto:dvoraa@netvision.net.il); Telephone: 972-4-846-9574.**





## St. Jude Children's Research Hospital

ALSAC • Danny Thomas, Founder

### Postdoctoral Position in Experimental Oncology Memphis, TN

A postdoctoral position is available immediately to participate in an established research program investigating the role of fusion proteins generated by chromosomal translocations in the etiology of human leukemia and lymphoma, and the functions of their normal homologues in cellular growth and development. Current studies focus on the characterization of the pathophysiologic role of the t(2;5) fusion product, NPM-ALK, in lymphomagenesis (*Science* 263:1281, 1994; *Blood* 88 (Suppl 1):450a, 1996; *Mol. Cell. Biol.* 17:2312, 1997; *Oncogene* 14:2175, 1997) and on the molecular, biochemical, and biological analysis of the NPM-MLF1 fusion protein produced by the t(3;5) rearrangement specific to acute myeloid leukemia, which our group has also recently cloned (*Oncogene* 12:265, 1996). Investigations designed to determine the normal function of the novel, neural-specific ALK receptor tyrosine kinase including inactivation of the gene in mice by homologous recombination, studies to identify the ALK ligand(s), and yeast two-hybrid screening and classical biochemical approaches to identify interacting substrates, are also planned or in progress. In addition, studies to characterize the normal function of the novel MLF1 protein altered by the t(3;5), and of its homologue MLF2 (*Genomics* 35:392, 1996), are beginning. A number of opportunities also exist for translational studies linking these basic research findings to medical applications for cancer diagnosis and therapeutics, as well as for the molecular characterization of other cancer-associated chromosomal abnormalities. Candidates possessing a Ph.D. and/or M.D. degree who are interested in joining a multidisciplinary group utilizing molecular cytogenetic, molecular biologic, and biochemical techniques to understand the mechanisms of malignant transformation should submit their curriculum vitae, reprints, and names of three references to: **Dr. Stephan W. Morris, Department of Experimental Oncology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105. Fax: 901-495-2032, E-mail: steve.morris@stjude.org**

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# Procter & Gamble

## CELL & MOLECULAR BIOLOGY

*The Cell and Molecular Biology Section in the Pharmaceuticals Research Division of the Procter & Gamble Company has a challenging opportunity for a scientist with molecular biology and fermentation experience. We are seeking an innovative molecular biologist to implement novel strategies to develop, optimize and execute recombinant protein expression systems. This individual will work within a multi-disciplinary Biotechnology Core Group to generate proteins and biomolecules used in drug discovery research, high-throughput screening and structural studies.*

### • Molecular Biologist

The ideal candidate will have a demonstrated record of accomplishments in the successful design and implementation of fermentation projects from bench scale to fermentor.

A Ph.D. in Molecular Biology or closely related discipline with post-doctoral research experience and a minimum of 5 years of experience is required (M.S. degree with 7+ years experience will be considered). A strong problem-solving aptitude, excellent interpersonal and communication skills and a demonstrated ability to work constructively as a member of an interdisciplinary team is essential. The position requires extensive experience with vector construction, expression optimization, strain development and manipulation as well as an in-depth knowledge of microbial biological systems. Industrial experience with recombinant protein production using multiple expression systems such as bacterial, yeast, filamentous fungi, insect and mammalian systems is highly desirable.

Procter & Gamble Pharmaceuticals is the ethical drug division of a world leader in the research, development, manufacture, and marketing of a wide variety of consumer products. Annual worldwide sales exceed \$35 billion, and our R&D budget is over \$1.4 billion/year. P&G makes and sells about 100 over-the-counter (OTC) and 40 prescription (Rx) health care brands globally. Its leading OTC brands include Crest, Vicks, Metamucil and PeptoBismol. Rx drugs include Didronel (etidronate disodium), for metabolic bone disease; Macrobid (nitrofurantion monohydrate macrocrystals), for acute urinary tract infections; Asacol (mesalazine) for ulcerative colitis; and Ziac (bisoprolol fumarate-hydrochlorothiazide), an anti-hypertensive, which P&G is co-marketing with Wyeth-Ayerst. P&G offers a competitive salary and benefits package, placing us among the top 5% of U.S. firms.

If you meet the qualifications for this position, please mail or e-mail (plain text only please) a letter of introduction, resume, and list of publications to:

**Dr. G.D. Owens**  
**The Procter & Gamble Company**  
**Doctoral Recruiting, Dept. RE**  
**P.O. Box 538707**  
**Cincinnati, OH 45253-8707**  
**E-Mail: ruter.jm@pg.com**

**P&G**

Applicants must be presently authorized to work in the U.S. on a full-time basis.

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## Princeton, New Jersey

### Senior Research Scientist Drug Metabolism

This is an opportunity for a Senior Research Scientist in the Drug Metabolism Division. The selected candidate will join a team of scientists involved in establishing and using *in vitro* metabolism models to support drug discovery and development. Our ideal candidate will have a Ph.D. in Chemistry, Biochemistry or related biological science and 2-5 years experience with special expertise in *in vitro* metabolic systems. Ideally, this will involve *in vitro-in vivo* extrapolations (which may include drug interactions, enzyme modulation, rates and routes of metabolism, pharmacogenetics and mechanisms), and *in vitro* models (microsomes, cultured tissue slices, hepatocytes, heterologous expression systems, etc.). This position will involve interactions with scientists both within and outside the Biotransformation Division, and therefore, superior oral and written communication skills are required. Supervisory experience and strong organizational skills are also desired. **Position #OPSCI-2648.**

## Pearl River, New York

### Research Scientist- Biologist Oncology/Immunology

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

Our ideal candidate will have a B.S. degree with 0-2 years relevant experience, which must include performing *in vivo* experiments in an oncology setting, utilizing sterile techniques, and performing large scale tissue cultures. The selected candidate will be expected to keep current on new procedures in the laboratory. **Position #OPSCI-2612.**



Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Please send your resume with salary requirements and position #, to: **Wyeth-Ayerst Research, Human Resources Dept., 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](mailto:jobs@RAMAIL1.wyeth.com) (ASCII format, no attachments, subject: resume). Principals Only. Equal Opportunity Employer, M/F/D/V.

29 August 1997

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## REGIONAL MEDICAL ASSOCIATE

SmithKline Beecham is a \$12.3 billion global pharmaceutical and healthcare company. Our world famous products and reputation provide unsurpassed opportunities for individuals to combine both scientific expertise and business skills as a Regional Medical Associate.

We are currently seeking a qualified individual to fill an opportunity for a Regional Medical Associate in southern California.

Our Medical Associates establish relationships with various healthcare providers, including managed care organizations. They act as medical liaisons providing scientific information regarding SmithKline Beecham products. Additionally, Regional Medical Associates provide training support for our regional sales staff and also provide strategic support in helping us to achieve our national and regional business objectives. 15-20% travel will be required.

To qualify, a Ph.D. or PharmD is required. Pharmacology, Toxicology, Microbiology or related Life Science backgrounds are preferred. Strong communication skills, high energy levels, excellent interpersonal skills and excellent planning and organization skills are also required. Business and marketing knowledge with a past record of success is a definite plus.

We offer one of the best compensation packages in the industry, including a car. If you'd like to be part of our success and can effectively perform in a dynamic atmosphere of change and innovation, send 2 COPIES of your scannable resume (no folding, staples or graphics) with salary history to: SmithKline Beecham, Job Code 008EAM97A, 914 164th Street S.E., Suite 153, Mill Creek, WA 98012. For more information on SmithKline Beecham Pharmaceuticals, visit our Web site at [www.sb.com/careers](http://www.sb.com/careers). We are an Equal Opportunity Employer, M/F/D/V.



**SmithKline Beecham**  
Pharmaceuticals

## VIROLOGIST

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, is seeking a scientist for our Molecular Virology and Host Defense Department. This department works on projects which encompass basic and applied research in many aspects of virology, including viral replication, pathogenesis, host-virus interaction, and the discovery of novel anti-viral compounds as well as the immunology of infectious diseases including immunomodulators, hematopoietic cytokines, and stromal cell biology.

The selected individual will be responsible for developing *in vivo* and *in vitro* models of viral infection to support anti-viral drug discovery efforts. Qualified candidates will have a BS (MS preferred), 3-5 years' experience in virology (preferably with human respiratory pathogens and/or herpes viruses) and a demonstrated expertise in advanced molecular biology techniques, including DNA, RNA and protein analysis, and PCR. In addition, the successful candidate will possess excellent organizational, communication and computer skills, as well as the ability to work effectively with individuals of varied backgrounds and disciplines. Experience with small animal models of infection or inflammation is preferred, but not required.

Located in a state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package as well as a stimulating work environment. For confidential consideration, please forward a resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code B7-0421, P.O. Box 2645, Bala Cynwyd, PA 19004. **Indicating Job Code is essential.** For more information on SmithKline Beecham, visit our Web site at [www.sb.com/careers](http://www.sb.com/careers). We are an Equal Opportunity Employer, M/F/D/V.



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## Research Opportunities in Transplantation

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We are also dedicated to providing a stimulating environment that is conducive to professional growth. We invite you to investigate the following opportunities at our state-of-the-art Northern New Jersey locations:

### Postdoctoral Research Fellow

Working in a highly interdisciplinary environment, your research will focus on developing new animal models of inflammation and of allograft rejection. Qualifications include a Ph.D./M.D. in Immunology, Pharmacology or a related discipline and experience with animal models and immunological assays. Familiarity with microsurgery, histology, cell biology or FACs would be a decided asset. Our postdoctoral assignments, which encourage creative thinking and offer ample opportunities for publication and research presentations, are for one year and may be renewable for a second year by mutual agreement. Please refer to Position MS-PD053 on resume AND envelope.

### Research Fellow

We are seeking an Investigator with strong leadership, organizational and communication skills to lead a small organ transplantation group. Qualifications include a Ph.D./M.D. with at least 5-7 years in microsurgery, immunology or physiology and a successful record of publication (in this field). Experience with immunohistochemistry, immunological assays and preclinical drug discovery would be a distinct advantage. Please refer to Position MS-4351 on resume AND envelope.

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# NHMRC

## Research Fellowships

National Health and Medical Research Council

### Howard Florey Centenary Research Fellowships

The Government has decided to fund the NHMRC for an exciting new Fellowship to be added to the portfolio of Scholarships and Fellowships awarded annually to advance health and medical research. The Fellowship is named the Howard Florey Centenary Research Fellowship to celebrate the centenary of the birth of Lord Howard Florey.

#### PURPOSE:

The purpose of the Fellowships is to provide a vehicle for Australian biomedical researchers currently working overseas, to return to Australia and continue a career in health and medical research.

#### ELIGIBILITY:

To be eligible to apply, candidates must at the time of application:

- |   |   |
|---|---|
| (i) hold a doctorate in a health related field of research;   | (iv) must not have been a recipient of a CJ Martin or Neil Hamilton Fairley Fellowship; |
| (ii) be actively engaged in research overseas, either full or part time;  | (v) provide a specific study plan; and  |
| (iii) be Australian citizens or be graduates from overseas with permanent Australian resident status, not under bond to any foreign government; | (vi) have an agreement with an Australian institution to carry out the study.           |

Applicants would usually have between two to five years postdoctoral experience.

#### TENURE:

The full time Fellowships will be awarded for a maximum of two years.

#### STIPEND, RELOCATION EXPENSES AND ALLOWANCES:

Fellowship stipends will be in the range of an RO3 (\$40,690 pa) - SR03 (\$45,952 pa) and if appropriate, clinical loadings will be paid as detailed in the relevant NHMRC Conditions of Award.

Minimum cost airfares for direct travel from the overseas centre for Fellows and their dependants.

A resettlement allowance toward the cost of the relocation of personal effects and household items (excluding motor vehicles etc.), setting up and temporary accommodation is payable for Fellows and their dependants.

#### APPLICATION:

Applications for the Fellowships will close 15 August 1997 and the Fellowships may commence anytime during 1998. Application forms are available from:

#### POSTAL ADDRESS:

Secretary, Training Awards Committee  
GPO Box 9848, CANBERRA ACT 2601  
AUSTRALIA

Fax No: INT + 61 6 289 6957  
Internet E-Mail: TREVOR.LORD@health.gov.au

### Postdoctoral Training Program in the Physiology of Reproduction

The Center for Reproductive Physiology at the University of Pittsburgh School of Medicine has positions available for postdoctoral fellows (Ph.D. and/or M.D.) to obtain two years of advanced training in the integrative study of the molecular biology, cell biology, and physiology of reproduction in higher primates and other mammals. The program, which is supported by an Institutional National Research Service Award (NIH), is directed by a steering committee comprising both basic and clinical scientists. The training faculty and their research interests include: **J. A. Amico**—oxytocin gene expression and secretion; **S. L. Berga**—neuroendocrine control of human reproduction; **J. L. Cameron**—nutrition, stress and the menstrual cycle; **D. B. DeFranco**—molecular biology of steroid hormone receptor regulation; **J. A. DeLoia**—molecular analysis of early mammalian development; **R. B. Gibbs**—estrogen receptor regulation in neurons expressing transmitters and growth factors; **E. S. Levitan**—cell biology of pituitary hormone secretion; **G. R. Marshall**—cell biology of FSH action on spermatogenesis; **T. M. Plant**—cell biology of inhibin and neurobiology of puberty; **K. D. Ryan**—female puberty; **A. Sahu**—leptin regulation of hypothalamic gene expression and aging; **W. H. Walker**—transcriptional regulation in Sertoli cells; **S. J. Winters**—hypothalamic/gonadal peptide control of gonadotropin gene expression; **A. J. Zeleznik**—cell biology of the primate ovary. *Candidates must meet NRSA US citizenship and residency requirements. Address curriculum vitae, and names of three referees to: Tony M. Plant, Ph.D., Director, Center for Research in Reproductive Physiology, Department of Cell Biology and Physiology, University of Pittsburgh School of Medicine, S330 Biomedical Science Tower, Pittsburgh, PA 15261.*

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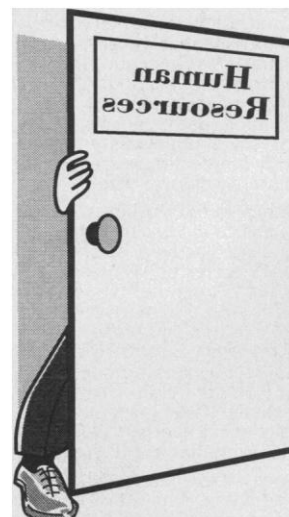
### UPCOMING 1997 SCIENCE CAREER FAIRS

<b>Cambridge, MA</b> on the MIT Campus 84 Massachusetts Ave., Stratton Building Student Center, 2nd Floor, La Salla Room 5 Sept.: 11 am – 4 pm 6 Sept.: 11 am – 3 pm	<b>Palo Alto, CA</b> on the Stanford Campus Tresidder Memorial Union 3 Oct.: 11 am – 4 pm 4 Oct.: 11 am – 3 pm
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#### To pre-register:

Please submit your résumé or CV via FAX: (202) 289-6742, or via e-mail: [careerfairs@aaas.org](mailto:careerfairs@aaas.org). Indicate the career fair location for which you are submitting. **Remember to bring multiple copies of your CV or résumé with you to the Career Fair; a copy will be necessary to gain admission to the hall. Admission to all of the events is FREE.**

Do not contact MIT or Stanford directly. They are not responsible for organizing these events.



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## The Global Environment: Invitation for RITE Research Proposals

Research Institute of Innovative Technology for the Earth (RITE) is inviting basic research proposals dealing with global environmental problems. Also, research proposals deemed to contribute significantly to the resolution of global environmental problems will be supported by RITE in the form of entrusted research.

### 1. Category of Research

Basic research aimed at the development of innovative technologies which will contribute to the solution of global environmental problems.

### 2. Themes of Research

[A] Research concerning carbon dioxide, methane, and other greenhouse gases considered to be the primary causes of global warming:

- 1) Efficient separation, recovery, disposal, re-use, etc. of greenhouse gases.
- 2) Innovative process technologies which limit greenhouse gas generation.
- 3) Research concerning enhancement of CO<sub>2</sub> sinks (e.g., ocean sink, underground storage, and reforestation through biotechnology).

[B] Research on other technologies concerning global environmental problems as follows:

- 1) Control of the generation and widespread release of chemical substances, apart from the greenhouse gases mentioned in [A], which are seriously detrimental to the environment, or detoxification of those substances.
- 2) Substitutes for the chemical substances mentioned above.
- 3) Recycling and effective utilization of materials.

### 3. Number of Research Proposals to be Accepted

The number of research proposals to be accepted will be determined after the governmental budget for FY 1998 has been confirmed. Thirteen new research proposals have been accepted for FY 1997.

### 4. Research Expenses for Entrusted Research

Up to 10 million Japanese yen will be allocated for each research proposal, although the entire cost of research proposal may not be covered by RITE. Research expenses distributed for the research proposals accepted in FY 1997 ranged from 4 million to 7.5 million Japanese yen per research proposal, with an average of 6.29 million yen.

### 5. Deadline for the Submission of Applications

Applications must be received by RITE no later than October 31, 1997.

**Attention: Applications received past deadline will be returned unprocessed.**

### 6. Period of the Entrusted Research

Period of the entrusted research will be from April 1998 to March 1999. If continuation is deemed necessary, however, RITE may entrust for the next year.

### 7. Qualified Research Participants

Individuals or groups engaged in research activities at research institutions, etc. are eligible. The applicants' citizenship or proposed site for the research will not be considered as criteria for selection.

### 8. Application Procedure

Applicants are asked to contact the RITE Section (as below) for further information on documents to be submitted and the prescribed form thereof. Facsimile transmission is preferred for speed of communication. Please include relevant telephone and fax numbers with requests.

**Research Proposals Reception Section**

**Research Planning Department**

**RITE**

**9-2 Kizugawadai, Kizu-cho, Soraku-gun**

**Kyoto, 619-02 JAPAN**

**TEL: +81-774-75-2302 FAX: +81-774-75-2314**

**Internet homepage (URL): <http://www.rite.or.jp/>**

### Chair of Biomedical Engineering (C-4)

The Fakultät für Klinische Medizin Mannheim der Universität Heidelberg (Department of Clinical Medicine Mannheim of the University of Heidelberg) plans to fill a Chair of Biomedical Engineering (C-4) in cooperation with the Fachhochschule Mannheim-Hochschule für Technik und Gestaltung (Mannheim University of applied sciences).

Applicants for the Chair should have an outstanding record of achievements in currently important areas of Biomedical Engineering, which could link already established research areas of the Medical Faculty and the Technical University. The scientific scope of the applicant should include the development of new diagnostics, therapeutic approaches, medical instrumentation, and the implementation thereof.

The position also includes the responsibility for lectures in Biomedical Engineering both at the Medical Faculty and the Technical University.

Habilitation or an equivalent qualification is required.

*Appropriately qualified female candidates are encouraged to apply. Applications from physically disabled candidates are welcome.*

Applications should include a curriculum vitae, a list of publications, copies of 5 relevant publications, and a personal statement of future research projects to: **The Dean of the Medical Faculty: Prof. Dr. med. K. van Ackern, Fakultät für Klinische Medizin Mannheim der Universität Heidelberg, D-68135 Mannheim.** The closing date for application is 15 August 1997.

## UNIVERSITY OF NAVARRA DIVISION OF GENE THERAPY AND HEPATOLOGY

### THREE STAFF RESEARCH POSITIONS FOR THE LABORATORIES OF PATHOLOGY, VIRAL VECTORS FOR GENE THERAPY, AND PRODUCTION OF MONOCLONAL ANTIBODIES

The University of Navarra is currently promoting various research programs in Biomedicine, in particular in the fields of Gene Therapy, Hepatology, Oncology, Neurosciences, and Vascular Wall. In the newly created Division of Gene Therapy and Hepatology, three full-time research positions are to be filled in the following areas:

1. **Laboratory of Morphology and Image Analysis.** For this position a **pathologist** with experience in clinical diagnosis, histochemistry, basic research, and molecular biology techniques is required. Appropriate postdoctoral training would be taken into consideration. The position will suit pathologists wishing to collaborate with other groups of the Division in projects relating to gene therapy in primary and metastatic liver cancer (colorectal, pancreatic), gene therapy of viral hepatitis, pathogenesis, and molecular mechanisms of liver diseases. Experience in liver histopathology will therefore be of importance. The laboratory will also be responsible for animal toxicology studies of gene therapy vectors prior to initiation of clinical protocols.

2. **Laboratory of Viral Vectors for Gene Therapy.** For this position a **virologist** with interest and experience in the development of viral vectors for Gene Therapy is required. Applicants should have at least five years of postdoctoral training and should send a brief outline of a proposed research project relating to the development of viral vectors for Gene Therapy.

3. **Laboratory of Protein Chemistry and Production of Monoclonal Antibodies.** A scientist with expertise in the production and characterization of **monoclonal antibodies** is required. Experience in techniques of protein isolation and purification, production of recombinant proteins, development of ELISA systems would be of importance. Applicants should have at least three years postdoctoral training.

The salary will depend on the experience and qualifications of the candidate. Teaching involves postgraduate tutorials and training. Knowledge of written and spoken English is mandatory.

The University of Navarra will provide salaries for an additional scientist, one or two graduate students, one or two postdoctoral fellows, and one technician (three in Morphology and Image Analysis) in each of these three laboratories. Start-up funds for laboratory equipment will also be provided.

The positions are initially for a period of five years and a positive evaluation is required thereafter.

Applications should be sent to Prof. J. Prieto, Departamento de Medicina, Clínica Universitaria, Facultad de Medicina, Universidad de Navarra, Apartado 4209, Pamplona 31080, Spain. Please forward a C.V., the name and address of three references. Give post-mail, phone, and e-mail number and address if available.

The closing date for receipt of applications is September 30th, 1997.

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available immediately to study mechanisms of eosinophil recruitment and degranulation in transgenic/gene knockout mice as well as chemically induced models of allergic disease (e.g., asthma, ocular conjunctivitis). Applicants should possess a strong background in molecular biology. Previous mouse experience is not required but is an asset. The Mayo Clinic Arizona offers competitive stipends commensurate with experience and an excellent benefits package. Please send curriculum vitae and names of three references to: Drs. Jamie or Nancy Lee, Department of Biochemistry and Molecular Biology, SC Johnson Medical Research Building, Mayo Clinic Arizona, 13400 East Shea Boulevard, Scottsdale, AZ 85259. E-mail: jlee@mayo.edu or nlee@mayo.edu; FAX: 602-301-7017. Further information is available at: <http://www.mayo.edu> or <http://www.jimmol.158:1332>, 1997; *J. Exp. Med.* 185:2143, 1997.

**POSTDOCTORAL FELLOWSHIPS**, mammalian genetics and cytogenetics. Immediate openings for Ph.D.'s or M.D.'s in clinical and basic human and/or mammalian genetics. Cytogenetics: three-year program of research and clinical cytogenetics leading to ABMG eligibility. Mammalian genetics research: emphasis on molecular/biochemical pathophysiologic mechanisms, murine models, and enzymology of lysosomal diseases. Send curriculum vitae and three references to: Gregory A. Grabowski, M.D., Director, Division and Program in Human Genetics, Children's Hospital Medical Center, Division of Human Genetics, 3333 Burnet Avenue, PAV 3-52, Cincinnati, OH 45229-3039. CHMC is an Equal Opportunity Employer.

**A POSTDOCTORAL FELLOW or RESEARCH ASSOCIATE** position is immediately available to participate in immunology and cell biology research on neuroblastoma. Requires M.D. or Ph.D. degree and experience in cellular immunology and molecular biology. Demonstrated leadership ability and excellent communication skills required. Send curriculum vitae, summary of research interests and experience, and at least three references to: Jed G. Nuchtern, M.D., Texas Children's Hospital, Hematology-Oncology, 6621 Fannin Street, MC 3-3320, Houston, TX 77030-2399. FAX: 713-770-4276; e-mail: nuchtern@bcm.tmc.edu.

Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access College.

**POSTDOCTORAL POSITION** available for three years to study molecular biology of cellular uptake of folates and antifolate anticancer drugs such as methotrexate. Experience with molecular techniques and cell cultures is essential. Send curriculum vitae and references to: Jeffrey A. Moscow, M.D., Chief, Pediatric Hematology Oncology, Department of Pediatrics, J457 Kentucky Clinic, 740 South Limestone Street, Lexington, KY 40536-0284. FAX: 606-323-3499; e-mail: moscowj@pbmac.nci.nih.gov.

**POSTDOCTORAL POSITION** available to study the enzymology and molecular genetics of DNA mismatch repair and to apply the tools to mutation analysis in humans. Opportunity to develop collaborations in protein analysis with mass-spectrometry. BIA core, phage-displayed antibodies, gene scan, and other CORE technologies. Please send complete curriculum vitae to: Dr. Anthony T. Yeung, Director, Fannie E. Ripple Biotechnology Facility, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. E-mail: at\_yeung@fccc.edu. Equal Opportunity Employer.

**POSTDOCTORAL ASSOCIATE**—Human Cancer Genetics. Position available immediately for recent Ph.D. for projects concerning the identification/characterization of novel genes involved in the development of human tumors. Experience in molecular cloning, signal transduction, or transgene technology preferred. Submit curriculum vitae and names of three references to: Joseph R. Testa, Ph.D., Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately to study the role of E2F transcription factors in cell growth control and cancer utilizing transgenic mouse models. Background in molecular biology required. Science Park is located 40 miles outside of Austin between two state parks. Send curriculum vitae and a list of references to: David Johnson, Ph.D., University of Texas MD Anderson Cancer Center, Science Park-Research Division, Box 389, Smithville, Texas 78957. We are an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

The University of Pennsylvania has an immediate opening for a **POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE** with strong background in molecular biology and protein chemistry for investigation of novel regulators of the plasminogen activator system. Please contact: Dr. Doug Cines, University of Pennsylvania Hospital, M163 John Morgan Building, Philadelphia, PA 19104.

### SENIOR POSTDOCTORAL POSITIONS AVAILABLE AT SLOAN-KETTERING INSTITUTE

Applicants with several years of postdoctoral experience who wish to assume a supervisory role, assisting in the design and successful completion of research projects, are encouraged to apply. Applicants should have considerable expertise studying the processes of cell differentiation, survival, or death, and be interested in defining the molecular and cellular events that underlie normal, malignant, and, in particular, myelodysplastic hematopoiesis. Expertise in the studies of protein-protein interactions, signal transduction pathways, cell cycle event, or differential gene expression (e.g. using RDA) is essential. Send a description of your research interests, curriculum vitae, and the names and phone numbers of three references to: Dr. Stephen D. Nimer, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, Box 575, New York, NY 10021.

A **POSTDOCTORAL FELLOW** position is available in the Molecular Pharmacology Laboratory at the Guthrie Research Institute to investigate signal transduction pathways regulating cell proliferation and cadherin-mediated adhesion (see *Cancer Research*, 57:1785-1793; *J. Cell Biol.*, 121:643-654). The Institute offers outstanding facilities and opportunities for both collaborative and independent work in a supportive environment. This position requires experience in molecular and cellular biology. Send curriculum vitae and names of three references to: Dr. Carol L. Williams, Molecular Pharmacology Laboratory, Guthrie Research Institute, One Guthrie Square, Sayre, PA 18840. An Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available to study molecular pharmacology of novel anticancer agents, focusing on compounds that have anti-angiogenic properties or are biochemical modulators of cancer chemotherapeutic drugs. Studies include analysis of genes involved in the two processes. Strong background in biochemical or molecular pharmacology, cell biology, or related fields preferred. Send curriculum vitae and names of three references to: Dr. Edward L. Schwartz, Department of Oncology, Albert Einstein Cancer Center, Montefiore Medical Center, 111 East 210th Street, Bronx, NY, 10467.

### CELL BIOLOGIST/BIOCHEMIST

**POSTDOCTORAL FELLOW** position is available in the Pulmonary and Critical Care Division, Brigham and Women's Hospital/Harvard Medical School to study the role of cysteine proteases in MHC class II antigen presentation. Experience in protein biochemistry, cell culture, and manipulation of mice required. Send curriculum vitae to: Dr. Harold Chapman, Pulmonary and Critical Care, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. FAX: 617-732-7421. An Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** available September 1, 1997, at the University of Colorado Health Science Center in Denver to study the molecular biology of renal Na-Cl and Na/Ca transport proteins and their role in the pathogenesis of human hypertension. A strong background in molecular biology, cell biology, and protein chemistry is highly desirable. Please forward curriculum vitae with names of three references to: Drs. D. H. Ellison and R. F. Reilly, c/o Renal Section/111C, VA Medical Center, 1055 Clermont Street, Denver, CO 80220. E-mail: david.ellison@yale.edu.

**POSTDOCTORAL POSITION** to study maize mutants; map genes and cDNAs; seek evidence of biochemical functions. Expertise in molecular genetics and knowledge of plant physiology and biochemistry required. Send or e-mail curriculum vitae to: Dr. Edward Coe, 210 Curtis Hall, University of Missouri, Columbia, MO 65211-7020. E-mail: ed@teosinte.agron.missouri.edu. Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL POSITION UNIVERSITY OF WASHINGTON

Postdoctoral position is available immediately for recent graduate with Ph.D. or M.D. degree. Research related to the structure and function of the mammalian cell membrane lipid bilayer. Emphasis on determinants that affect phosphoglyceride-dependent cell signaling and the activities of peripheral membrane proteins.

Must have a solid background in protein chemistry and molecular biology and be fluent in English. Position restricted to individuals who have no more than one year of prior postdoctoral experience. Three year maximum support for 1996 or 1997 Ph.D. Candidates should send curriculum vitae, three letters of recommendation, and summary of career goals to: Dr. John Glomset, Department of Biochemistry, Box 357370, University of Washington, Seattle, WA 98195. Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS.** The laboratory has general interests in signal transduction, protein kinases, and the control of glycogen metabolism. Individuals are sought who are strongly committed to research. Projects include: (1) Role of self-glucosylating proteins and glycogen synthase in glycogen biogenesis and diabetes. Structure-function and genetic studies of mammalian glycogenin-1 and the newly discovered glycogenin-2. Experience in biochemistry and molecular biology. (2) Role of the cyclin-dependent protein kinase Pho85 in *S. cerevisiae*. Experience in yeast genetics and molecular biology. Send applications, including the names of three references to: Dr. Peter J. Roach, Department of Biochemistry and Molecular Biology, Indiana University School of Medicine, Indianapolis, IN 46202-5122. Indiana University is an Equal Opportunity Affirmative Action Educator, Employer, and contractor.

### POSTDOCTORAL IN MEDICAL MYCOLOGY

A postdoctoral position is available to study how pathogenic fungi (e.g., *Candida* and *Cryptococcus*) regulate intracellular levels of acyclic polyols (*J. Bacteriol.* 175:6314, 177:2971, 179:157; *Microbiol.* 142:937; *J. Immunol.* 156:3836). Experience with molecular biology of membrane transporters and/or yeast is desirable. Send curriculum vitae and three references to: Brian Wong, Yale University School of Medicine, VA Medical Center, 950 Campbell Avenue (111-I), West Haven, CT 06516. FAX: 203-937-3476; e-mail: brian.wong@yale.edu.

### POSTDOCTORAL ASSOCIATE: EHRLICHIOSIS

Position in laboratory that isolated the agent of human granulocytic ehrlichiosis. Focus upon molecular and cellular interactions with target cells. Experience in intracellular organisms, receptors desirable. Curriculum vitae and three references to: Dr. J. L. Goodman, University of Minnesota, Box 250, 516 Delaware Street, S.E., Minneapolis, MN 55455. FAX: 612-625-4410; e-mail: jesse@lenti.med.umn.edu.

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## SYMPOSIUM

### SECOND INTERNATIONAL SYMPOSIUM ON OXIDATIVE STRESS AND BRAIN DAMAGE: FOCUS ON NEUROPSYCHIATRIC DISORDERS September 26 to 28, 1997, Chicago, Illinois, USA

Organized by the Psychiatric Institute, University of Illinois at Chicago. Topics and Speakers: Aging, Melatonin, Alzheimer's: H. Alho (Finland), R. G. Allen (USA), C. Behl (Germany), C. Carlberg (Germany), B. Claustrat (France), C. E. Coffey (USA), M. Dubocovich (USA), V. Kumar (USA), H. Manev (USA), N. N. Osborne (U.K.), R. J. Reiter (USA), A. E. Roher (USA), R. E. Rydel (USA). Schizophrenia, Parkinson's: G. Cohen (USA), M. Ebadi (USA), S. Leonard (USA), J. B. Lohr (USA), J. A. Prince (Sweden), M. Shenton (USA), R. Reddy (USA). Basic mechanisms: I. Hanbauer (USA), L. Kiedrowski (USA), A.-N.T. Kong (USA), C. Richter (Switzerland), S. J. M. Skinner (New Zealand), N. Smalheiser (USA), G. T. Vassary (USA), P. L. Wood (USA), H.-Y. Yang (Taiwan), P. H. Yu (Canada). Plus, two days of poster presentations. More information: FAX: 312-433-8369 or 8358; Telephone: 312-433-8356; e-mail: hmanev@psych.uic.edu.

## PROTEIN BIOCHEMIST

The Laboratory of Skin Biology of the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institutes of Health (NIH), Public Health Service (PHS), is seeking an outstanding Protein Biochemist to carry out studies on the sequences, structures and functions of epidermal and cytoskeletal proteins and enzymes. The candidate must have a doctoral degree in a relevant academic discipline, at least six years of postdoctoral training and experience, and a record of accomplishment demonstrated by major publications in the fields of skin biology and cell biology. The candidate should combine a thorough background in protein biochemistry including methods for the formation, analysis and characterization of chemical and enzymatic crosslinking reactions; advanced expertise in up-to-date methods for protein sequencing; extensive experience of epidermal structural proteins and methods for the isolation and characterization of high molecular weight cytoskeletal structural proteins. In addition to primary research activities, the appointee will be expected to have thorough knowledge of the operation and maintenance of chemical and mass spectroscopic equipment used for protein sequencing, and have demonstrated experience in the training and mentoring of postdoctoral fellows and other trainees. Starting salary will be in the range of \$60-70,000 per annum, depending on qualifications. **U.S. citizenship is required.** Interested candidates should respond within 30 days of this advertisement by submitting a curriculum vitae and bibliography, at least three relevant reprints, summary of research interests, and the names of three references to: **Ms. LYN EYRE, NIAMS/IRP, BLDG 45, ROOM 5AN-44A, 45 CENTER DR MSC 6505, BETHESDA MD 20892-6505.** NIH is an Equal Opportunity Employer.

## OPPORTUNITIES IN BIOANALYTICAL CHEMISTRY

Merck Research Laboratories, a world leader in biological and pharmaceutical research, has two positions available for scientists in Bioanalytical areas in support of human vaccine development at our West Point, PA facility.

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### Senior Research Biochemist (Ad # B-112-A)

The successful Senior Research Biochemist will possess a Ph.D. in Biochemistry, Molecular Biology, Protein Chemistry or the equivalent with 1-4 years of postgraduate training.

### Biochemist (Ad # B-112-B)

The successful Biochemist will possess a B.S. or M.S. in Biochemistry, Molecular Biology, Protein Chemistry with 2-3 years of relevant laboratory experience.

Excellent salary and benefit programs accompany these positions at our modern research facilities located 25 miles northwest of Philadelphia. Please send curriculum vitae with cover letter and the names of three references to: **HR Manager, Ad # \_\_\_\_\_, MRL Human Resources, WP42-2, Merck Research Laboratories, P. O. Box 4, West Point, PA 19486.** Only candidates considered for interviews will receive responses. EOE, M/F/D/V. No phone calls or agencies, please.

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Ribozyme Pharmaceuticals, Inc., Job #066, 2950 Wilderness Place, Boulder, CO 80301. Fax (303) 449-6995.

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## MOLECULAR MEDICINE FACULTY POSITIONS

The Cedars-Sinai Medical Center Burns & Allen Research Institute is seeking productive and creative Research Scientists whose research focuses on molecular mechanisms of human disease. Preference will be given to established scientists studying genomic medicine, molecular pathology, developmental biology, or immunology. Individual investigators or groups of investigators involved in collaborative research are encouraged to apply. Attractive state-of-the-art laboratory space and start-up funds are available commensurate with productivity and resource requirements of the recruit. Faculty would be expected to have significant extramural research support. All academic faculty appointments must meet the criteria of the University of California for Associate or Professor level and carry a requirement for research and teaching. The deadline for applications is: **AUGUST 31, 1997.** Applications should include a curriculum vitae, statement of research interests, and status of current funding. Please send application to: **Shlomo Melmed, MD, Director, Cedars-Sinai Research Institute, Cedars-Sinai Medical Center, 8700 Beverly Blvd., Rm B131, Los Angeles, CA 90048. FAX: (310) 967-0119.** Cedars-Sinai Medical Center is an Equal Opportunity/Affirmative Action Employer.



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## CONFERENCE

**"FUTURE NEEDS AND DEVELOPMENTS IN ANTISENSE TECHNOLOGY" WORKSHOP** to assess the application of antisense approach in cardiovascular, lung, and blood research. Sponsored by NHLBI. September 25 to 26, 1997. Bethesda, Maryland. Co-chairs: Alexander Rich and Kenneth Chien. Confirmed speakers: S. Agrawal, S. Crooke, V. Dzau, E. Edelman, M. Flanagan, G. Gibbons, M. Morris, M. I. Phillips, M. Post, R. Rosenberg, J. Rossi, C. Stein, N. Usman, E. Wickstrom, P. Zamecnik. For information contact: Michael C. Lin, Telephone: 301-435-0560; FAX: 301-480-2849; e-mail: michael\_lin@nih.gov.

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